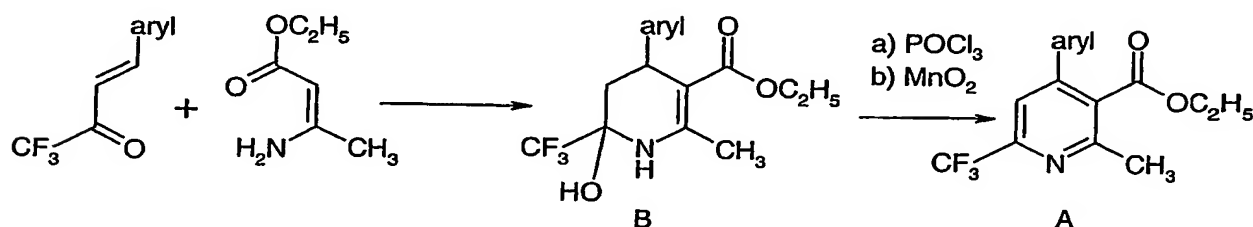


# PROCESS FOR THE PRODUCTION OF SUBSTITUTED NICOTINIC ACID ESTERS

The present invention relates to a novel process for the preparation of 6-haloalkyl-3-nicotinic acid esters and also to novel enamine intermediates for use in that process.

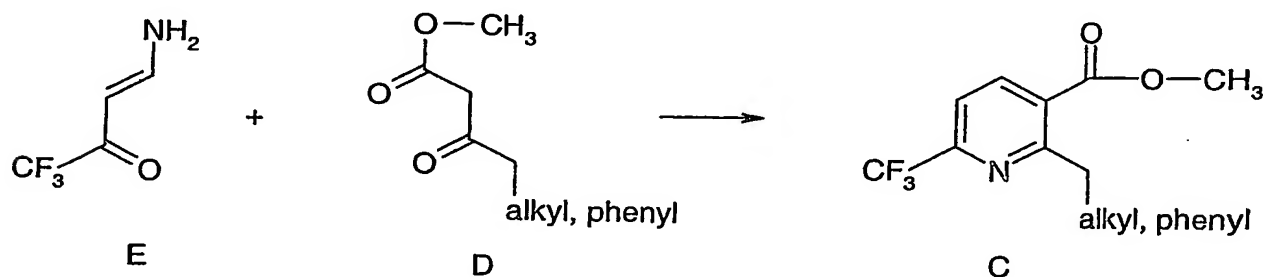
6-Haloalkyl-3-nicotinic acid esters are valuable intermediates for the preparation of herbicides such as those described, for example, in WO 01/94339.

From Heterocycles, Vol. 48, No. 4, 1998, pages 779-785 it is known to prepare 6-trifluoro-3-nicotinic acid ethyl esters substituted by aryl in the 4-position, corresponding to formula A, by means of dehydrogenation and subsequent oxidation of the compound of formula B in accordance with the following scheme



As a result of the uneconomic multi-step procedure, that process is not well suited to the large-scale preparation of 6-haloalkyl-3-nicotinic acid ethyl esters.

According to Heterocycles, Vol. 46, 1997, pages 129-132, 6-trifluoro-3-nicotinic acid methyl esters substituted by phenyl or alkyl in the 2-position, corresponding to formula C,



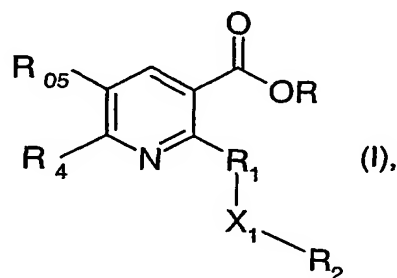
can be prepared by reacting a compound of formula E with a compound of formula D in benzene and in the presence of trifluoroacetic acid. In addition to unsatisfactory yields,

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that process has the serious disadvantage for large-scale preparation that the quality of the enamine (E) used as starting material continuously deteriorates during storage as a result of polymerisation reactions, making it considerably more difficult to ensure a consistent product quality.

The problem of the present invention is consequently to make available a novel process for the preparation of 6-haloalkyl-3-nicotinic acid esters which makes it possible to prepare those compounds at reasonable cost, in high yields and with good quality.

The present invention accordingly relates to a process for the preparation of compounds of formula I



wherein

R is C<sub>1</sub>-C<sub>6</sub>alkyl;

R<sub>05</sub> is Hydrogen, C<sub>1</sub>-C<sub>3</sub>alkyl, C<sub>1</sub>-C<sub>3</sub>haloalkyl or C<sub>1</sub>-C<sub>3</sub>alkyl-C<sub>1</sub>-C<sub>3</sub>alkoxy;

R<sub>1</sub> is a C<sub>1</sub>-C<sub>6</sub>alkylene, C<sub>3</sub>-C<sub>6</sub>alkenylene or C<sub>3</sub>-C<sub>6</sub>alkynylene chain which may be substituted one or more times by halogen and/or by R<sub>5</sub>, the unsaturated bonds of the chain not being attached directly to the substituent X<sub>1</sub>;

R<sub>4</sub> is C<sub>1</sub>-C<sub>4</sub>haloalkyl;

X<sub>1</sub> is oxygen, -O(CO)-, -(CO)O-, -O(CO)O-, -N(R<sub>6</sub>)-O-, -O-NR<sub>17</sub>-, thio, sulfinyl, sulfonyl, -SO<sub>2</sub>NR<sub>7</sub>-, -NR<sub>18</sub>SO<sub>2</sub>-, -N(SO<sub>2</sub>R<sub>18a</sub>)-, -N(R<sub>18b</sub>)C(O)- or -NR<sub>8</sub>-;

R<sub>18a</sub> is C<sub>1</sub>-C<sub>6</sub>alkyl;

R<sub>2</sub> is hydrogen or C<sub>1</sub>-C<sub>6</sub>alkyl, or is a C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>3</sub>-C<sub>6</sub>alkenyl or C<sub>3</sub>-C<sub>6</sub>alkynyl group which may be substituted one or more times by substituents selected from halogen, hydroxy, amino, formyl, nitro, cyano, mercapto, carbamoyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>haloalkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, C<sub>2</sub>-C<sub>6</sub>haloalkynyl, C<sub>3</sub>-C<sub>6</sub>cycloalkyl, halo-substituted C<sub>3</sub>-C<sub>6</sub>cycloalkyl, C<sub>3</sub>-C<sub>6</sub>alkenyloxy, C<sub>3</sub>-C<sub>6</sub>alkynyloxy, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>3</sub>-C<sub>6</sub>haloalkenyloxy, cyano-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkoxy-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkoxy-C<sub>1</sub>-C<sub>6</sub>alkoxy-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkylsulfinyl-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-

C<sub>6</sub>alkylsulfonyl-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkylcarbonyl, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>alkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>alkylsulfonyl, C<sub>1</sub>-C<sub>6</sub>haloalkylthio, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfonyl, oxiranyl (which may in turn be substituted by C<sub>1</sub>-C<sub>6</sub>alkyl), (3-oxetanyl)oxy (which may in turn be substituted by C<sub>1</sub>-C<sub>6</sub>alkyl), benzyloxy, benzylthio, benzylsulfinyl, benzylsulfonyl, C<sub>1</sub>-C<sub>6</sub>alkylamino, di(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, R<sub>9</sub>S(O)<sub>2</sub>O-, R<sub>10</sub>N(R<sub>11</sub>)SO<sub>2</sub>-, rhodano, phenyl, phenoxy, phenylthio, phenylsulfinyl and phenylsulfonyl; it being possible for the phenyl- or benzyl-containing groups to be in turn substituted by one or more C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, halogen, cyano, hydroxy or nitro groups, or

R<sub>2</sub> is phenyl which may be substituted one or more times by C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, halogen, cyano, hydroxy or by nitro; or

R<sub>2</sub> is C<sub>3</sub>-C<sub>6</sub>cycloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy- or C<sub>1</sub>-C<sub>6</sub>alkyl-substituted C<sub>3</sub>-C<sub>6</sub>cycloalkyl, 3-oxetanyl or C<sub>1</sub>-C<sub>6</sub>alkyl-substituted 3-oxetanyl; or

R<sub>2</sub> is a three- to ten-membered, monocyclic or fused bicyclic, ring system which may be aromatic, partially saturated or fully saturated and may contain from 1 to 4 hetero atoms selected from nitrogen, oxygen, sulfur, and/or may contain the group -C(=O)-, -C(=S)-, -C(=NR<sub>19</sub>)-, -(N=O)-, -S(=O)- or -SO<sub>2</sub>-, the ring system being attached to the substituent X<sub>1</sub> either directly or by way of a C<sub>1</sub>-C<sub>4</sub>alkylene, C<sub>2</sub>-C<sub>4</sub>alkenylene, C<sub>2</sub>-C<sub>4</sub>alkynylene, -N(R<sub>12</sub>)-C<sub>1</sub>-C<sub>4</sub>alkylene, -O-C<sub>1</sub>-C<sub>4</sub>alkylene, -S-C<sub>1</sub>-C<sub>4</sub>alkylene, -SO-C<sub>1</sub>-C<sub>4</sub>alkylene or -SO<sub>2</sub>-C<sub>1</sub>-C<sub>4</sub>alkylene group and each ring system containing no more than 2 oxygen atoms and no more than two sulfur atoms, and it being possible for each ring system itself to be substituted one or more times by C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>haloalkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, C<sub>2</sub>-C<sub>6</sub>haloalkynyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>3</sub>-C<sub>6</sub>alkenyloxy, C<sub>3</sub>-C<sub>6</sub>alkynyloxy, mercapto, amino, hydroxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>haloalkylthio, C<sub>3</sub>-C<sub>6</sub>alkenylthio, C<sub>3</sub>-C<sub>6</sub>haloalkenylthio, C<sub>3</sub>-C<sub>6</sub>alkynylthio, C<sub>1</sub>-C<sub>3</sub>alkoxy-C<sub>1</sub>-C<sub>3</sub>alkylthio, C<sub>1</sub>-C<sub>4</sub>alkylcarbonyl-C<sub>1</sub>-C<sub>3</sub>alkylthio, C<sub>1</sub>-C<sub>4</sub>alkoxycarbonyl-C<sub>1</sub>-C<sub>3</sub>alkylthio, cyano-C<sub>1</sub>-C<sub>3</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>alkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>alkylsulfonyl, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfonyl, amino-sulfonyl, C<sub>1</sub>-C<sub>2</sub>alkylaminosulfonyl, N,N-di(C<sub>1</sub>-C<sub>2</sub>alkyl)aminosulfonyl, di(C<sub>1</sub>-C<sub>4</sub>alkyl)amino, halogen, cyano, nitro or by phenyl, it being possible for the phenyl group to be in turn substituted by hydroxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>haloalkylthio, C<sub>3</sub>-C<sub>6</sub>alkenylthio, C<sub>3</sub>-C<sub>6</sub>haloalkenylthio, C<sub>3</sub>-C<sub>6</sub>alkynylthio, C<sub>1</sub>-C<sub>3</sub>alkoxy-C<sub>1</sub>-C<sub>3</sub>alkylthio, C<sub>1</sub>-C<sub>4</sub>alkylcarbonyl-C<sub>1</sub>-C<sub>3</sub>alkylthio, C<sub>1</sub>-C<sub>4</sub>alkoxycarbonyl-C<sub>1</sub>-C<sub>3</sub>alkylthio, cyano-C<sub>1</sub>-C<sub>3</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>alkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>alkylsulfonyl, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfonyl, aminosulfonyl, C<sub>1</sub>-C<sub>2</sub>alkyl-

aminosulfonyl, N,N-di(C<sub>1</sub>-C<sub>2</sub>alkyl)aminosulfonyl, di(C<sub>1</sub>-C<sub>4</sub>alkyl)amino, halogen, cyano or by nitro, and the substituents on nitrogen in a heterocyclic ring being other than halogen; R<sub>5</sub> is hydroxy, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>6</sub>cycloalkyloxy, C<sub>1</sub>-C<sub>6</sub>alkoxy-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkoxy-C<sub>1</sub>-C<sub>6</sub>alkoxy-C<sub>1</sub>-C<sub>6</sub>alkoxy or C<sub>1</sub>-C<sub>2</sub>alkylsulfonyloxy;

R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub>, R<sub>9</sub>, R<sub>10</sub>, R<sub>11</sub>, R<sub>12</sub>, R<sub>17</sub>, R<sub>18</sub> and R<sub>18b</sub> are each independently of the others hydrogen, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl, C<sub>1</sub>-C<sub>6</sub>alkylcarbonyl, C<sub>1</sub>-C<sub>6</sub>alkoxy-C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy-C<sub>1</sub>-C<sub>6</sub>alkyl substituted by C<sub>1</sub>-C<sub>6</sub>alkoxy, benzyl, or phenyl, it being possible for phenyl and benzyl to be in turn substituted one or more times by C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, halogen, cyano, hydroxy or by nitro; R<sub>6</sub> not being hydrogen when R<sub>9</sub> is hydrogen, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl or C<sub>1</sub>-C<sub>6</sub>alkylcarbonyl;

or the group -R<sub>1</sub>-X<sub>1</sub>-R<sub>2</sub> together is C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>haloalkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, C<sub>2</sub>-C<sub>6</sub>haloalkynyl, C<sub>3</sub>-C<sub>6</sub>cycloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>alkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>alkylsulfonyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>haloalkylthio, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfonyl, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl, C<sub>1</sub>-C<sub>6</sub>alkylcarbonyl, C<sub>1</sub>-C<sub>6</sub>alkylamino, di(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, C<sub>1</sub>-C<sub>6</sub>alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>alkyl)aminosulfonyl, -NH-S-R<sub>13</sub>, -N-(C<sub>1</sub>-C<sub>4</sub>alkylthio)-R<sub>13</sub>, -NH-SO-R<sub>14</sub>, -N-(C<sub>1</sub>-C<sub>4</sub>alkylsulfonyl)-R<sub>14</sub>, -NH-SO<sub>2</sub>-R<sub>15</sub>, -N-(C<sub>1</sub>-C<sub>4</sub>alkylsulfonyl)-R<sub>15</sub>, nitro, cyano, halogen, hydroxy, amino, formyl, rhodano-C<sub>1</sub>-C<sub>6</sub>alkyl, cyano-C<sub>1</sub>-C<sub>6</sub>alkyl, oxiranyl, C<sub>3</sub>-C<sub>6</sub>alkenyloxy, C<sub>3</sub>-C<sub>6</sub>alkynyloxy, C<sub>1</sub>-C<sub>6</sub>alkoxy-C<sub>1</sub>-C<sub>6</sub>alkoxy, cyano-C<sub>1</sub>-C<sub>6</sub>alkenyloxy, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyloxy-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>6</sub>alkynyloxy, cyano-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl-C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl-C<sub>1</sub>-C<sub>6</sub>alkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl-C<sub>1</sub>-C<sub>6</sub>alkylsulfonyl, C<sub>1</sub>-C<sub>6</sub>alkylsulfonyloxy, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfonyloxy, phenyl, benzyl, phenoxy, phenylthio, phenylsulfinyl, phenylsulfonyl, benzylthio, benzylsulfinyl or benzylsulfonyl, it being possible for the phenyl groups to be substituted one or more times by halogen, methyl, ethyl, trifluoromethyl, methoxy or by nitro; or the group -R<sub>1</sub>-X<sub>1</sub>-R<sub>2</sub> together is a three- to ten-membered, monocyclic or fused bicyclic, ring system, which may be aromatic, partially saturated or saturated and which may contain from 1 to 4 hetero atoms selected from nitrogen, oxygen and sulfur and/or may contain one or two groups selected from -C(=O)-, -C(=S)-, -C(=NR<sub>20</sub>)-, -(N=O)-, -S(=O)- and -SO<sub>2</sub>-; the ring system either being attached to the pyridine ring directly *via* a carbon atom or being attached to the pyridine ring *via* a carbon atom or *via* a nitrogen atom by way of a C<sub>1</sub>-C<sub>4</sub>alkylene, C<sub>2</sub>-C<sub>4</sub>alkenyl or C<sub>2</sub>-C<sub>4</sub>alkynyl chain, and it being possible for each ring system to contain no more than 2 oxygen atoms and no more than two sulfur atoms,

and it being possible for the ring system itself to be substituted one, two or three times by substituents selected from C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>3</sub>-C<sub>6</sub>alkenyl, C<sub>3</sub>-C<sub>6</sub>haloalkenyl, C<sub>3</sub>-C<sub>6</sub>alkynyl, C<sub>3</sub>-C<sub>6</sub>haloalkynyl, C<sub>3</sub>-C<sub>6</sub>cycloalkyl, hydroxy, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>3</sub>-C<sub>6</sub>alkenyloxy, C<sub>3</sub>-C<sub>6</sub>alkynyloxy, mercapto, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>haloalkylthio, C<sub>3</sub>-C<sub>6</sub>alkenylthio, C<sub>3</sub>-C<sub>6</sub>haloalkenylthio, C<sub>3</sub>-C<sub>6</sub>alkynylthio, C<sub>1</sub>-C<sub>3</sub>alkoxy-C<sub>1</sub>-C<sub>3</sub>alkylthio, C<sub>1</sub>-C<sub>3</sub>alkylcarbonyl-C<sub>1</sub>-C<sub>3</sub>alkylthio, C<sub>1</sub>-C<sub>4</sub>alkoxycarbonyl-C<sub>1</sub>-C<sub>3</sub>alkylthio, cyano-C<sub>1</sub>-C<sub>3</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>alkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>alkylsulfonyl, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfonyl, aminosulfonyl, C<sub>1</sub>-C<sub>2</sub>alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>alkyl)aminosulfonyl, C<sub>1</sub>-C<sub>3</sub>alkylene-R<sub>16</sub>, amino, C<sub>1</sub>-C<sub>6</sub>alkylamino, C<sub>1</sub>-C<sub>6</sub>alkoxyamino, di(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, (N-C<sub>1</sub>-C<sub>6</sub>alkyl)-C<sub>1</sub>-C<sub>6</sub>alkoxyamino, halogen, cyano, nitro, phenyl, benzyloxy and benzylthio, it being possible for phenyl, benzyloxy and benzylthio to be in turn substituted on the phenyl ring by C<sub>1</sub>-C<sub>3</sub>alkyl, C<sub>1</sub>-C<sub>3</sub>haloalkyl, C<sub>1</sub>-C<sub>3</sub>alkoxy, C<sub>1</sub>-C<sub>3</sub>haloalkoxy, halogen, cyano or by nitro, and substituents on a nitrogen atom in a heterocyclic ring being other than halogen;

R<sub>13</sub> is N(H)-C<sub>1</sub>-C<sub>6</sub>alkyl, N(H)-C<sub>1</sub>-C<sub>6</sub>alkoxy, N-(C<sub>1</sub>-C<sub>6</sub>alkyl)-C<sub>1</sub>-C<sub>6</sub>alkyl, N-(C<sub>1</sub>-C<sub>6</sub>alkyl)-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>3</sub>-C<sub>6</sub>alkenyl, C<sub>3</sub>-C<sub>6</sub>haloalkenyl, C<sub>3</sub>-C<sub>6</sub>alkynyl, C<sub>3</sub>-C<sub>6</sub>haloalkynyl, C<sub>3</sub>-C<sub>6</sub>cycloalkyl or phenyl, it being possible for phenyl to be in turn substituted by C<sub>1</sub>-C<sub>3</sub>alkyl, C<sub>1</sub>-C<sub>3</sub>haloalkyl, C<sub>1</sub>-C<sub>3</sub>alkoxy, C<sub>1</sub>-C<sub>3</sub>haloalkoxy, halogen, cyano or by nitro;

R<sub>14</sub> is N(H)-C<sub>1</sub>-C<sub>6</sub>alkyl, N(H)-C<sub>1</sub>-C<sub>6</sub>alkoxy, N-(C<sub>1</sub>-C<sub>6</sub>alkyl)-C<sub>1</sub>-C<sub>6</sub>alkyl, N-(C<sub>1</sub>-C<sub>6</sub>alkyl)-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>3</sub>-C<sub>6</sub>alkenyl, C<sub>3</sub>-C<sub>6</sub>haloalkenyl, C<sub>3</sub>-C<sub>6</sub>alkynyl, C<sub>3</sub>-C<sub>6</sub>haloalkynyl, C<sub>3</sub>-C<sub>6</sub>cycloalkyl or phenyl, it being possible for phenyl to be in turn substituted by C<sub>1</sub>-C<sub>3</sub>alkyl, C<sub>1</sub>-C<sub>3</sub>haloalkyl, C<sub>1</sub>-C<sub>3</sub>alkoxy, C<sub>1</sub>-C<sub>3</sub>haloalkoxy, halogen, cyano or by nitro;

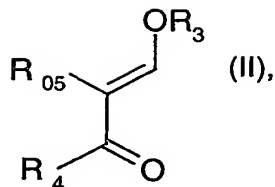
R<sub>15</sub> is N(H)-C<sub>1</sub>-C<sub>6</sub>alkyl, N(H)-C<sub>1</sub>-C<sub>6</sub>alkoxy, N-(C<sub>1</sub>-C<sub>6</sub>alkyl)-C<sub>1</sub>-C<sub>6</sub>alkyl, N-(C<sub>1</sub>-C<sub>6</sub>alkyl)-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>3</sub>-C<sub>6</sub>alkenyl, C<sub>3</sub>-C<sub>6</sub>haloalkenyl, C<sub>3</sub>-C<sub>6</sub>alkynyl, C<sub>3</sub>-C<sub>6</sub>haloalkynyl, C<sub>3</sub>-C<sub>6</sub>cycloalkyl or phenyl, it being possible for phenyl to be in turn substituted by C<sub>1</sub>-C<sub>3</sub>alkyl, C<sub>1</sub>-C<sub>3</sub>haloalkyl, C<sub>1</sub>-C<sub>3</sub>alkoxy, C<sub>1</sub>-C<sub>3</sub>haloalkoxy, halogen, cyano or by nitro;

R<sub>16</sub> is C<sub>1</sub>-C<sub>3</sub>alkoxy, C<sub>2</sub>-C<sub>4</sub>alkoxycarbonyl, C<sub>1</sub>-C<sub>3</sub>alkylthio, C<sub>1</sub>-C<sub>3</sub>alkylsulfinyl, C<sub>1</sub>-C<sub>3</sub>alkylsulfonyl or phenyl, it being possible for phenyl to be in turn substituted by C<sub>1</sub>-C<sub>3</sub>alkyl, C<sub>1</sub>-C<sub>3</sub>haloalkyl, C<sub>1</sub>-C<sub>3</sub>alkoxy, C<sub>1</sub>-C<sub>3</sub>haloalkoxy, halogen, cyano or by nitro; and

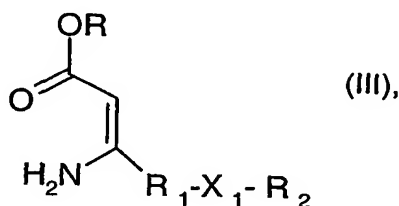
R<sub>19</sub> and R<sub>20</sub> are each independently of the other hydrogen, hydroxy, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, cyano, C<sub>1</sub>-C<sub>6</sub>alkylcarbonyl, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl or C<sub>1</sub>-C<sub>6</sub>alkylsulfonyl; which process comprises reacting

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a compound of formula II



wherein  $\text{R}_3$  is  $\text{C}_1$ - $\text{C}_8$ alkyl or  $\text{C}_3$ - $\text{C}_6$ cycloalkyl and  $\text{R}_4$  and  $\text{R}_{05}$  are as defined for formula I, with a compound of formula III



wherein  $\text{R}$ ,  $\text{R}_1$ ,  $\text{R}_2$  and  $\text{X}_1$  are as defined for formula I, in an inert solvent in the presence of a proton source.

The alkyl groups appearing in the substituent definitions may be straight-chained or branched and are, for example, methyl, ethyl, n-propyl, isopropyl, n-butyl, sec-butyl, isobutyl, tert-butyl, pentyl, hexyl, heptyl and octyl and also the branched isomers thereof. Alkoxy, alkenyl and alkynyl groups are derived from the mentioned alkyl groups. The alkenyl and alkynyl groups may be mono- or poly-unsaturated.

Halogen is generally fluorine, chlorine, bromine or iodine, preferably fluorine or chlorine. The same is also correspondingly true for halogen in conjunction with other meanings such as haloalkyl or halophenyl.

Haloalkyl groups preferably have a chain length of from 1 to 6 carbon atoms. Haloalkyl is, for example, fluoromethyl, difluoromethyl, trifluoromethyl, chloromethyl, dichloromethyl, trichloromethyl, 2,2,2-trifluoroethyl, 2-fluoroethyl, 2-chloroethyl, pentafluoroethyl, 1,1-difluoro-2,2,2-trichloroethyl, 2,2,3,3-tetrafluoroethyl or 2,2,2-trichloroethyl; preferably trichloromethyl, difluorochloromethyl, difluoromethyl, trifluoromethyl or dichlorofluoromethyl.

As haloalkenyl there come into consideration alkenyl groups substituted one or more times by halogen, halogen being fluorine, chlorine, bromine or iodine, especially fluorine or chlorine, for example 2,2-difluoro-1-methylvinyl, 3-fluoropropenyl, 3-chloropropenyl, 3-bromopropenyl, 2,3,3-trifluoropropenyl, 2,3,3-trichloropropenyl and 4,4,4-trifluoro-but-2-en-1-yl. Among the C<sub>3</sub>-C<sub>6</sub>alkenyl groups substituted once, twice or three times by halogen, preference is given to those that have a chain length of from 3 to 5 carbon atoms.

As haloalkynyl there come into consideration alkynyl groups substituted one or more times by halogen, halogen being bromine, iodine or, especially, fluorine or chlorine, for example 3-fluoropropynyl, 3-chloropropynyl, 3-bromopropynyl, 3,3,3-trifluoropropynyl and 4,4,4-trifluoro-but-2-yn-1-yl. Among the alkynyl groups substituted one or more times by halogen, preference is given to those that have a chain length of from 3 to 5 carbon atoms.

Alkoxy groups preferably have a chain length of from 1 to 6 carbon atoms. Alkoxy is, for example, methoxy, ethoxy, propoxy, isopropoxy, n-butoxy, isobutoxy, sec-butoxy or tert-butoxy or the pentyloxy or hexyloxy isomers; preferably methoxy or ethoxy. Alkylcarbonyl preferably is acetyl or propionyl. Alkoxy carbonyl is, for example, methoxycarbonyl, ethoxycarbonyl, propoxycarbonyl, isopropoxycarbonyl, n-butoxycarbonyl, isobutoxycarbonyl, sec-butoxycarbonyl or tert-butoxycarbonyl; preferably methoxycarbonyl or ethoxycarbonyl. Haloalkoxy groups preferably have a chain length of from 1 to 8 carbon atoms. Haloalkoxy is, for example, fluoromethoxy, difluoromethoxy, trifluoromethoxy, 2,2,2-trifluoroethoxy, 1,1,2,2-tetrafluoroethoxy, 2-fluoroethoxy, 2-chloroethoxy, 2,2-difluoroethoxy or 2,2,2-trichloroethoxy; preferably difluoromethoxy, 2-chloroethoxy or trifluoromethoxy. Alkylthio groups preferably have a chain length of from 1 to 8 carbon atoms. Alkylthio is, for example, methylthio, ethylthio, propylthio, isopropylthio, n-butylthio, isobutylthio, sec-butylthio or tert-butylthio, preferably methylthio or ethylthio. Alkylsulfinyl is, for example, methylsulfinyl, ethylsulfinyl, propylsulfinyl, isopropylsulfinyl, n-butylsulfinyl, isobutylsulfinyl, sec-butylsulfinyl or tert-butylsulfinyl; preferably methylsulfinyl or ethylsulfinyl.

Alkylsulfonyl is, for example, methylsulfonyl, ethylsulfonyl, propylsulfonyl, isopropylsulfonyl, n-butylsulfonyl, isobutylsulfonyl, sec-butylsulfonyl or tert-butylsulfonyl; preferably

methylsulfonyl or ethylsulfonyl. Alkoxyalkoxy groups preferably have a chain length of from 1 to 8 carbon atoms. Examples of alkoxyalkoxy are: methoxymethoxy, methoxyethoxy, methoxypropoxy, ethoxymethoxy, ethoxyethoxy, propoxymethoxy and butoxybutoxy. Alkylamino is, for example, methylamino, ethylamino, n-propylamino, isopropylamino or the butylamine isomers. Dialkylamino is, for example, dimethylamino, methylethylamino, diethylamino, n-propylmethylamino, dibutylamino or diisopropylamino. Preference is given to alkylamino groups having a chain length of from 1 to 4 carbon atoms. Alkoxyalkyl groups preferably have a chain length of from 2 to 6 carbon atoms. Alkoxyalkyl is, for example, methoxymethyl, methoxyethyl, ethoxymethyl, ethoxyethyl, n-propoxymethyl, n-propoxyethyl, isopropoxymethyl or isopropoxyethyl. Alkylthioalkyl groups preferably have from 2 to 8 carbon atoms. Alkylthioalkyl is, for example, methylthiomethyl, methylthioethyl, ethylthiomethyl, ethylthioethyl, n-propylthiomethyl, n-propylthioethyl, isopropylthiomethyl, isopropylthioethyl, butylthiomethyl, butylthioethyl or butylthiobutyl. The cycloalkyl groups preferably have from 3 to 8 ring carbon atoms, for example cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl and cyclooctyl. Phenyl, including phenyl as part of a substituent such as phenoxy, benzyl, benzyloxy, benzoyl, phenylthio, phenylalkyl and phenoxyalkyl, may be present in substituted form, in which case the substituents may be in the ortho-, meta- and/or para-position(s). Preferred substituent positions are the positions ortho and para to the ring attachment position.

In accordance with the process according to the invention there are preferably prepared those compounds of formula I wherein

R<sub>4</sub> is halomethyl or haloethyl;

R<sub>05</sub> is hydrogen;

X<sub>1</sub> is oxygen, -O(CO)-, -(CO)O-, -O(CO)O-, -N(R<sub>6</sub>)-O-, -O-NR<sub>17</sub>-, thio, sulfinyl, sulfonyl, -SO<sub>2</sub>NR<sub>7</sub>-, -NR<sub>18</sub>SO<sub>2</sub>- or -NR<sub>6</sub>-;

R<sub>2</sub> is hydrogen or C<sub>1</sub>-C<sub>8</sub>alkyl, or a C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>3</sub>-C<sub>6</sub>alkenyl or C<sub>3</sub>-C<sub>6</sub>alkynyl group which is substituted one or more times by halogen, hydroxy, amino, formyl, nitro, cyano, mercapto, carbamoyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>haloalkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, C<sub>2</sub>-C<sub>6</sub>haloalkynyl, C<sub>3</sub>-C<sub>6</sub>cycloalkyl, halo-substituted C<sub>3</sub>-C<sub>6</sub>cycloalkyl, or by C<sub>3</sub>-C<sub>6</sub>alkenyloxy, C<sub>3</sub>-C<sub>6</sub>alkynyloxy, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>3</sub>-C<sub>6</sub>haloalkenyloxy, cyano-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkoxy-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkoxy-C<sub>1</sub>-C<sub>6</sub>alkoxy-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkylsulfinyl-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkylsulfonyl-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl-C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl, C<sub>1</sub>-C<sub>6</sub>alkylcarbonyl, C<sub>1</sub>-C<sub>6</sub>alkylthio,



C<sub>1</sub>-C<sub>6</sub>alkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>alkylsulfonyl, C<sub>1</sub>-C<sub>6</sub>haloalkylthio, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfonyl, oxiranyl (which may in turn be substituted by C<sub>1</sub>-C<sub>6</sub>alkyl), or by (3-oxetanyl)oxy (which may in turn be substituted by C<sub>1</sub>-C<sub>6</sub>alkyl), or by benzylthio, benzylsulfinyl, benzylsulfonyl, C<sub>1</sub>-C<sub>6</sub>alkylamino, di(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, R<sub>9</sub>S(O)<sub>2</sub>O-, R<sub>10</sub>N(R<sub>11</sub>)SO<sub>2</sub>-, rhodano, phenyl, phenoxy, phenylthio, phenylsulfinyl or by phenylsulfonyl; it being possible for the phenyl- or benzyl-containing groups to be in turn substituted by one or more C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, halogen, cyano, hydroxy or nitro groups, or

R<sub>2</sub> is phenyl which may be substituted one or more times by C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, halogen, cyano, hydroxy or by nitro; or

R<sub>2</sub> is C<sub>3</sub>-C<sub>6</sub>cycloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy- or C<sub>1</sub>-C<sub>6</sub>alkyl-substituted C<sub>3</sub>-C<sub>6</sub>cycloalkyl, 3-oxetanyl or C<sub>1</sub>-C<sub>6</sub>alkyl-substituted 3-oxetanyl;

or R<sub>2</sub> is a five- to ten-membered, monocyclic or fused bicyclic, ring system which may be aromatic, partially saturated or fully saturated and may contain from 1 to 4 hetero atoms selected from nitrogen, oxygen, sulfur, and/or may contain the group -C(=O)-, -C(=S)-, -C(=NR<sub>19</sub>)-, -(N=O)-, -S(=O)- or -SO<sub>2</sub>-, the ring system being attached to the substituent X<sub>1</sub> directly or by way of a C<sub>1</sub>-C<sub>4</sub>alkylene, C<sub>2</sub>-C<sub>4</sub>alkenyl-C<sub>1</sub>-C<sub>4</sub>alkylene, C<sub>2</sub>-C<sub>4</sub>alkynyl-C<sub>1</sub>-C<sub>4</sub>alkylene, -N(R<sub>12</sub>)-C<sub>1</sub>-C<sub>4</sub>alkylene, -SO-C<sub>1</sub>-C<sub>4</sub>alkylene or -SO<sub>2</sub>-C<sub>1</sub>-C<sub>4</sub>alkylene group and each ring system containing no more than 2 oxygen atoms and no more than two sulfur atoms, and it being possible for each ring system itself to be substituted one or more times by C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>haloalkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, C<sub>2</sub>-C<sub>6</sub>haloalkynyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>3</sub>-C<sub>6</sub>alkenyloxy, C<sub>3</sub>-C<sub>6</sub>alkynyloxy, mercapto, amino, hydroxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>haloalkylthio, C<sub>3</sub>-C<sub>6</sub>alkenylthio, C<sub>3</sub>-C<sub>6</sub>haloalkenylthio, C<sub>3</sub>-C<sub>6</sub>alkynylthio, C<sub>1</sub>-C<sub>3</sub>alkoxy-C<sub>1</sub>-C<sub>3</sub>alkylthio, C<sub>1</sub>-C<sub>4</sub>alkylcarbonyl-C<sub>1</sub>-C<sub>3</sub>alkylthio, C<sub>1</sub>-C<sub>4</sub>alkoxycarbonyl-C<sub>1</sub>-C<sub>3</sub>alkylthio, cyano-C<sub>1</sub>-C<sub>3</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>alkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>alkylsulfonyl, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfonyl, aminosulfonyl, C<sub>1</sub>-C<sub>2</sub>alkylaminosulfonyl, N,N-di(C<sub>1</sub>-C<sub>2</sub>alkyl)aminosulfonyl, di(C<sub>1</sub>-C<sub>4</sub>alkyl)amino, halogen, cyano, nitro or by phenyl, it being possible for the phenyl group to be in turn substituted by hydroxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>haloalkylthio, C<sub>3</sub>-C<sub>6</sub>alkenylthio, C<sub>3</sub>-C<sub>6</sub>haloalkenylthio, C<sub>3</sub>-C<sub>6</sub>alkynylthio, C<sub>1</sub>-C<sub>3</sub>alkoxy-C<sub>1</sub>-C<sub>3</sub>alkylthio, C<sub>1</sub>-C<sub>4</sub>alkylcarbonyl-C<sub>1</sub>-C<sub>3</sub>alkylthio, C<sub>1</sub>-C<sub>4</sub>alkoxycarbonyl-C<sub>1</sub>-C<sub>3</sub>alkylthio, cyano-C<sub>1</sub>-C<sub>3</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>alkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>alkylsulfonyl, C<sub>1</sub>-C<sub>6</sub>haloalkylsulfonyl, aminosulfonyl, C<sub>1</sub>-C<sub>2</sub>alkylaminosulfonyl, N,N-di(C<sub>1</sub>-C<sub>2</sub>alkyl)aminosulfonyl, di(C<sub>1</sub>-C<sub>4</sub>alkyl)amino, halogen, cyano or by nitro, and the substituents on nitrogen in a heterocyclic ring being other than halogen;

$R_6$ ,  $R_7$ ,  $R_8$ ,  $R_9$ ,  $R_{10}$ ,  $R_{11}$ ,  $R_{12}$ ,  $R_{17}$  and  $R_{18}$  are each independently of the others hydrogen,  $C_1$ - $C_6$ alkyl,  $C_1$ - $C_6$ haloalkyl,  $C_1$ - $C_6$ alkoxycarbonyl,  $C_1$ - $C_6$ alkylcarbonyl,  $C_1$ - $C_6$ alkoxy- $C_1$ - $C_6$ alkyl,  $C_1$ - $C_6$ alkoxy- $C_1$ - $C_6$ alkyl substituted by  $C_1$ - $C_6$ alkoxy, benzyl, or phenyl, it being possible for phenyl and benzyl to be in turn substituted one or more times by  $C_1$ - $C_6$ alkyl,  $C_1$ - $C_6$ haloalkyl,  $C_1$ - $C_6$ alkoxy,  $C_1$ - $C_6$ haloalkoxy, halogen, cyano, hydroxy or by nitro;  $R_6$  not being hydrogen when  $R_9$  is hydrogen,  $C_1$ - $C_6$ alkoxycarbonyl or  $C_1$ - $C_6$ alkylcarbonyl;

or the group  $-R_1-X_1-R_2$  together is  $C_1$ - $C_6$ alkyl,  $C_2$ - $C_6$ alkenyl,  $C_2$ - $C_6$ haloalkenyl,  $C_2$ - $C_6$ alkynyl,  $C_2$ - $C_6$ haloalkynyl,  $C_3$ - $C_6$ cycloalkyl,  $C_1$ - $C_6$ alkoxy,  $C_1$ - $C_6$ haloalkoxy,  $C_1$ - $C_6$ alkylthio,  $C_1$ - $C_6$ alkylsulfinyl,  $C_1$ - $C_6$ alkylsulfonyl,  $C_1$ - $C_6$ haloalkyl,  $C_1$ - $C_6$ haloalkylthio,  $C_1$ - $C_6$ haloalkylsulfinyl,  $C_1$ - $C_6$ haloalkylsulfonyl,  $C_1$ - $C_6$ alkoxycarbonyl,  $C_1$ - $C_6$ alkylcarbonyl,  $C_1$ - $C_6$ alkylamino, di( $C_1$ - $C_6$ alkyl)amino,  $C_1$ - $C_6$ alkylaminosulfonyl, di( $C_1$ - $C_6$ alkyl)aminosulfonyl,  $-NH-S-R_{13}$ ,  $-N-(C_1-C_4alkylthio)-R_{13}$ ,  $-NH-SO-R_{14}$ ,  $-N-(C_1-C_4alkylsulfonyl)-R_{14}$ ,  $-NH-SO_2-R_{15}$ ,  $-N-(C_1-C_4alkylsulfonyl)-R_{15}$ , nitro, cyano, halogen, hydroxy, amino, formyl, rhodano- $C_1$ - $C_6$ alkyl, cyano- $C_1$ - $C_6$ alkyl, oxiranyl,  $C_3$ - $C_6$ alkenyloxy,  $C_3$ - $C_6$ alkynyloxy,  $C_1$ - $C_6$ alkoxy- $C_1$ - $C_6$ alkoxy, cyano- $C_1$ - $C_6$ alkenyloxy,  $C_1$ - $C_6$ alkoxycarbonyloxy- $C_1$ - $C_6$ alkoxy,  $C_3$ - $C_6$ alkynyl-oxy, cyano- $C_1$ - $C_6$ alkoxy,  $C_1$ - $C_6$ alkoxycarbonyl- $C_1$ - $C_6$ alkoxy,  $C_1$ - $C_6$ alkylthio- $C_1$ - $C_6$ alkoxy, alkoxycarbonyl- $C_1$ - $C_6$ alkylthio, alkoxycarbonyl- $C_1$ - $C_6$ alkylsulfinyl, alkoxycarbonyl- $C_1$ - $C_6$ alkylsulfonyl,  $C_1$ - $C_6$ alkylsulfonyloxy,  $C_1$ - $C_6$ haloalkylsulfonyloxy, phenyl, benzyl, phenoxy, phenylthio, phenylsulfinyl, phenylsulfonyl, benzylthio, benzylsulfinyl or benzylsulfonyl, it being possible for the phenyl groups to be substituted one or more times by halogen, methyl, ethyl, trifluoromethyl, methoxy or by nitro;

or the group  $-R_1-X_1-R_2$  together is a five- to ten-membered, monocyclic or fused bicyclic, ring system, which may be aromatic or partially saturated and which may contain from 1 to 4 hetero atoms selected from nitrogen, oxygen and sulfur, the ring system either being directly attached to the pyridine ring or being attached to the pyridine ring by way of a  $C_1$ - $C_4$ alkylene group, and it being possible for each ring system to contain no more than 2 oxygen atoms and no more than two sulfur atoms, and/or to contain the group  $-C(=O)-$ ,  $-C(=S)-$ ,  $-C(=NR_{20})-$ ,  $-(N=O)-$ ,  $-S(=O)-$  or  $-SO_2-$ ;

and the ring system itself may be substituted one, two or three times by  $C_1$ - $C_6$ alkyl,  $C_1$ - $C_6$ haloalkyl,  $C_3$ - $C_6$ alkenyl,  $C_3$ - $C_6$ haloalkenyl,  $C_3$ - $C_6$ alkynyl,  $C_3$ - $C_6$ haloalkynyl,  $C_1$ - $C_6$ alkoxy,  $C_1$ - $C_6$ haloalkoxy,  $C_3$ - $C_6$ alkenyloxy,  $C_3$ - $C_6$ alkynyloxy, mercapto,  $C_1$ - $C_6$ alkylthio,  $C_1$ - $C_6$ haloalkylthio,  $C_3$ - $C_6$ alkenylthio,  $C_3$ - $C_6$ haloalkenylthio,  $C_3$ - $C_6$ alkynylthio,  $C_2$ - $C_5$ alkoxyalkylthio,  $C_3$ - $C_5$ acetylalkylthio,  $C_3$ - $C_6$ alkoxycarbonylalkylthio,  $C_2$ - $C_4$ cyanoalkylthio,  $C_1$ - $C_6$ alkylsulfinyl,  $C_1$ - $C_6$ haloalkylsulfinyl,  $C_1$ - $C_6$ alkylsulfonyl,  $C_1$ - $C_6$ haloalkylsulfonyl, aminosulfonyl,

C<sub>1</sub>-C<sub>2</sub>alkylaminosulfonyl, C<sub>2</sub>-C<sub>4</sub>dialkylaminosulfonyl, C<sub>1</sub>-C<sub>3</sub>alkylene-R<sub>16</sub>, N(H)-C<sub>1</sub>-C<sub>6</sub>alkyl, N(H)-C<sub>1</sub>-C<sub>6</sub>alkoxy, N-(C<sub>1</sub>-C<sub>6</sub>alkyl)-C<sub>1</sub>-C<sub>6</sub>alkyl, N-(C<sub>1</sub>-C<sub>6</sub>alkyl)-C<sub>1</sub>-C<sub>6</sub>alkoxy, halogen, cyano, nitro, phenyl and by benzylthio, it being possible for phenyl and benzylthio to be in turn substituted on the phenyl ring by C<sub>1</sub>-C<sub>3</sub>alkyl, C<sub>1</sub>-C<sub>3</sub>haloalkyl, C<sub>1</sub>-C<sub>3</sub>alkoxy, C<sub>1</sub>-C<sub>3</sub>haloalkoxy, halogen, cyano or by nitro, and substituents on nitrogen in a heterocyclic ring being other than halogen; and

R<sub>19</sub> and R<sub>20</sub> are each independently of the other hydrogen, hydroxy, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkylcarbonyl, C<sub>1</sub>-C<sub>6</sub>alkoxycarbonyl or C<sub>1</sub>-C<sub>6</sub>alkylsulfonyl.

The process according to the invention is especially suitable for the preparation of those compounds of formula I wherein R<sub>1</sub> is -CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-, -CF<sub>2</sub>-, -CH=CHCH<sub>2</sub>-, -CH(CH<sub>3</sub>)- or -C≡CCH<sub>2</sub>-, but preferably -CH<sub>2</sub>-, the free valency on the left in each case being attached to the pyridine ring.

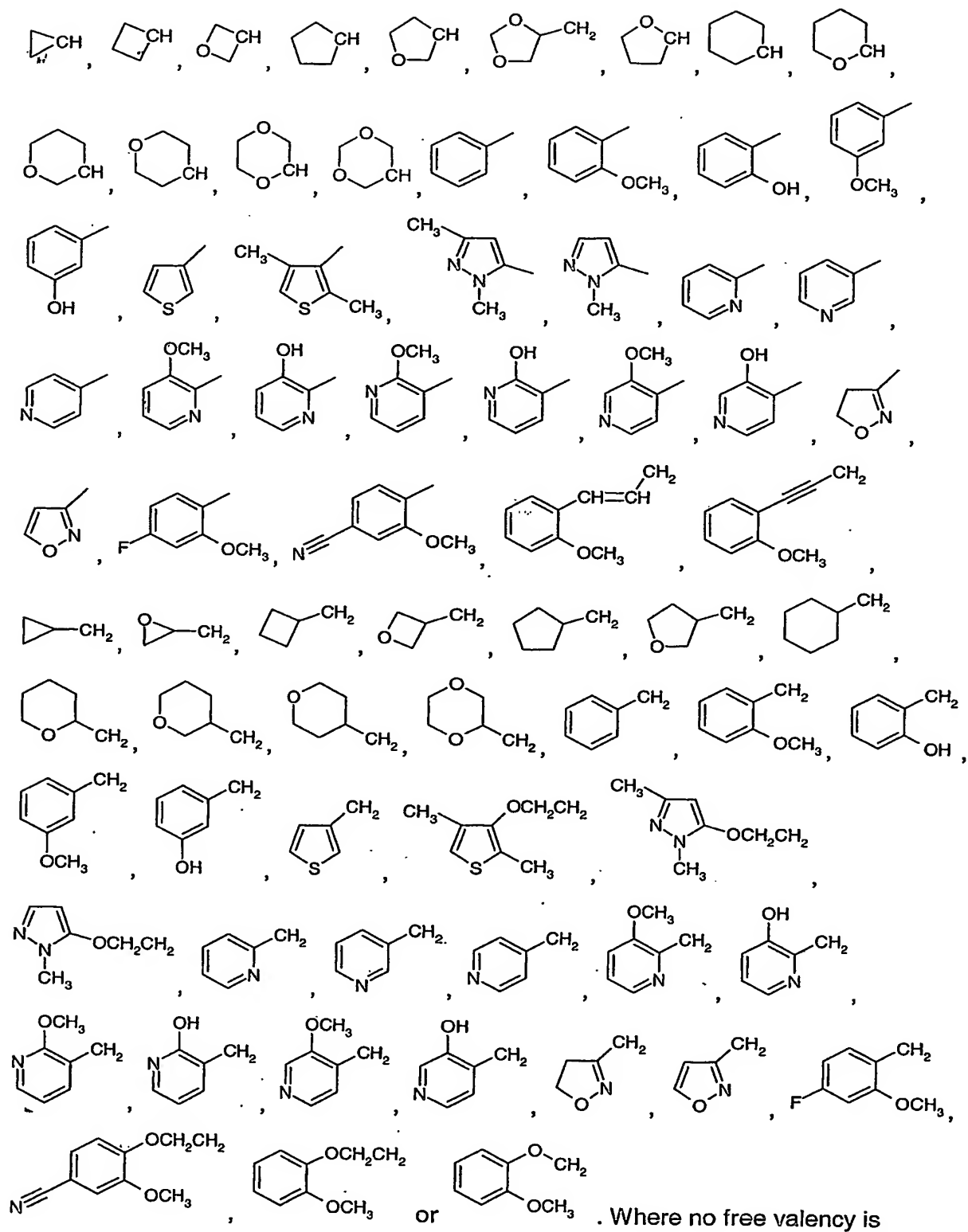
Preference is furthermore given to the preparation of those compounds of formula I wherein X<sub>1</sub> is oxygen, sulfonyl or a group -NR<sub>18</sub>SO<sub>2</sub>-, especially oxygen.

In accordance with the process according to the invention, special preference is given to the preparation of those compounds of formula I wherein R<sub>2</sub> is CH<sub>3</sub>, CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>OCH<sub>3</sub>, CH<sub>2</sub>OCH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>OCH<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CF<sub>3</sub>, propargyl, cyclopropylmethyl, benzyl, CH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>CH<sub>3</sub> or CH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>3</sub>, but preferably CH<sub>2</sub>CH<sub>2</sub>OCH<sub>3</sub>, with very special preference being given to those compounds wherein X<sub>1</sub> is oxygen and R<sub>1</sub> is -CH<sub>2</sub>-.


In accordance with the process according to the invention, preference is given to the preparation of those compounds of formula I wherein R<sub>05</sub> is hydrogen, CH<sub>3</sub>, CH<sub>2</sub>Cl, CH<sub>2</sub>Br or CH<sub>2</sub>OCH<sub>3</sub>, but especially hydrogen.

From that group, those compounds wherein R is ethoxy or methoxy may be prepared especially advantageously.

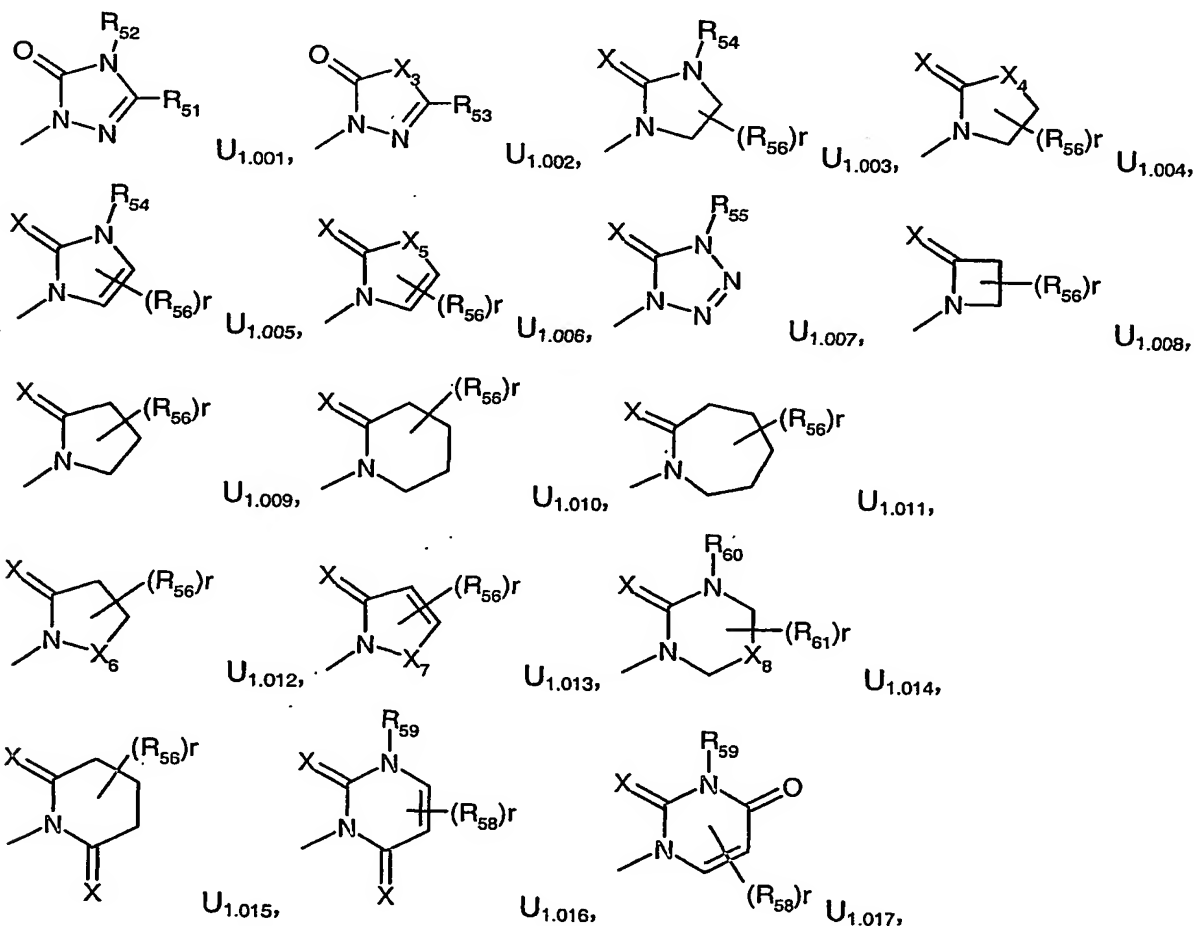
Furthermore, in accordance with the process according to the invention there may be advantageously prepared compounds of formula I wherein R<sub>2</sub> is

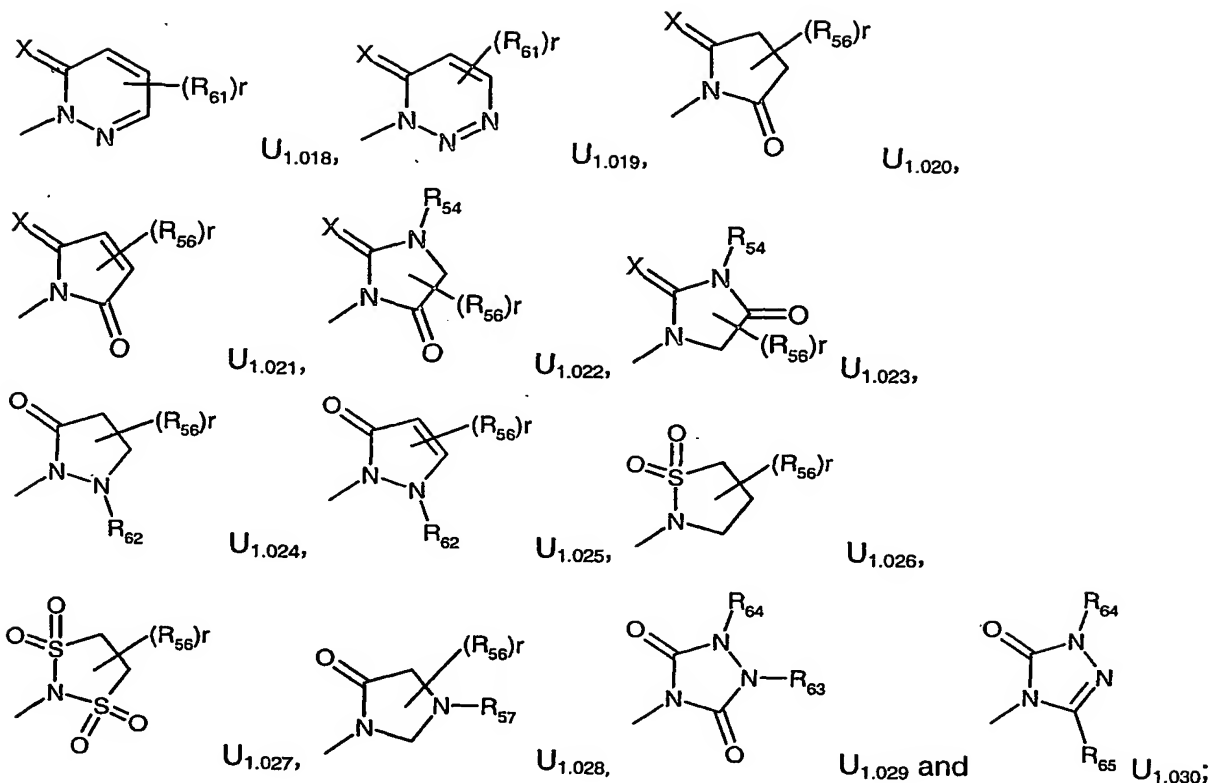


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indicated in those preferred meanings of  $R_2$ , as in the case of, for example, , the attachment position is at the carbon atom marked "CH".

Furthermore, there may also be advantageously prepared those compounds wherein the group  $-R_1-X_1-R_2$  together is a four- to ten-membered, monocyclic or fused bicyclic, ring system, which may be aromatic, partially saturated or saturated and contains from 1 to 4 hetero atoms selected from nitrogen, oxygen and sulfur and/or contains one or two groups selected from  $-C(=O)-$ ,  $-C(=S)-$ ,  $-C(=NR_{20})-$  and  $-SO_2-$ , the ring system being attached to the pyridine ring *via* a carbon atom or preferably *via* a nitrogen atom by way of a  $C_1$ - $C_4$ alkylene chain, especially a methylene chain. Among such ring systems special mention may be made of the following preferred, four- to seven-membered ring systems attached *via* a nitrogen atom to the methylene group, the attachment position being shown in each case at the bottom left:





wherein *r* is 0, 1 or 2; R<sub>51</sub>, R<sub>53</sub>, R<sub>56</sub> and R<sub>65</sub> are each independently of the others hydrogen, halogen, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>3</sub>-C<sub>6</sub>cycloalkyl, C<sub>3</sub>-C<sub>6</sub>alkenyl, C<sub>3</sub>-C<sub>6</sub>alkynyl, C<sub>1</sub>-C<sub>3</sub>alkoxy-C<sub>1</sub>-C<sub>3</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>6</sub>alkenyloxy, C<sub>3</sub>-C<sub>6</sub>alkynyloxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>1</sub>-C<sub>6</sub>alkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>alkylsulfonyl, C<sub>3</sub>-C<sub>6</sub>alkenylthio or C<sub>3</sub>-C<sub>6</sub>alkynylthio; R<sub>52</sub> is hydrogen, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>3</sub>-C<sub>6</sub>cycloalkyl, C<sub>3</sub>-C<sub>6</sub>alkenyl, C<sub>3</sub>-C<sub>6</sub>alkynyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, amino, or phenyl which may in turn be substituted by R<sub>70</sub>; R<sub>54</sub>, R<sub>55</sub> and R<sub>60</sub> are each independently of the others hydrogen, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>3</sub>-C<sub>6</sub>alkenyl, C<sub>3</sub>-C<sub>6</sub>alkynyl or C<sub>3</sub>-C<sub>6</sub>cycloalkyl; R<sub>57</sub>, R<sub>63</sub>, R<sub>66</sub>, R<sub>67</sub>, R<sub>68</sub> and R<sub>69</sub> are each independently of the others C<sub>1</sub>-C<sub>6</sub>alkyl, or phenyl which may in turn be substituted by R<sub>70</sub>; R<sub>64</sub> is C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>3</sub>-C<sub>6</sub>cycloalkyl, C<sub>3</sub>-C<sub>6</sub>alkenyl, C<sub>3</sub>-C<sub>6</sub>alkynyl, or phenyl which may in turn be substituted by R<sub>70</sub>; R<sub>58</sub> and R<sub>61</sub> are hydrogen, halogen, C<sub>1</sub>-C<sub>6</sub>alkyl or C<sub>1</sub>-C<sub>6</sub>haloalkyl; R<sub>59</sub> is C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>3</sub>alkoxy-C<sub>1</sub>-C<sub>3</sub>alkyl, C<sub>3</sub>-C<sub>6</sub>alkenyl or C<sub>3</sub>-C<sub>6</sub>alkynyl; R<sub>62</sub> is hydrogen, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxycarbonyl or C<sub>1</sub>-C<sub>4</sub>alkylthiocarbonyl; or R<sub>51</sub> together with R<sub>52</sub>, or R<sub>54</sub> together with an adjacent group R<sub>56</sub>, or R<sub>58</sub> together with an adjacent group R<sub>59</sub>, or R<sub>60</sub> together with an adjacent group R<sub>61</sub>, or, when *r* is 2, two adjacent groups R<sub>56</sub> or two adjacent groups R<sub>61</sub> together may form a saturated or unsaturated C<sub>1</sub>-C<sub>5</sub>alkylene or C<sub>3</sub>-C<sub>4</sub>alkenylene bridge, which may in turn be substituted by a group R<sub>70</sub> or interrupted by

oxygen, sulfur or nitrogen; each  $R_{70}$  is independently halogen,  $C_1$ - $C_3$ alkyl,  $C_1$ - $C_3$ haloalkyl, hydroxy,  $C_1$ - $C_3$ alkoxy,  $C_1$ - $C_3$ haloalkoxy, cyano or nitro; X is oxygen, sulfur or  $NR_6$ ;  $X_3$ ,  $X_4$  and  $X_5$  are oxygen or sulfur;  $X_6$  and  $X_7$  are oxygen, sulfur,  $S(O)$  or  $SO_2$ ; and  $X_8$  is  $CH_2$ , oxygen, sulfur,  $S(O)$ ,  $SO_2$  or  $NR_{71}$ , wherein  $R_{71}$  is hydrogen or  $C_1$ - $C_6$ alkyl.

In the context of the present invention, preference is given to the group  $R_1$ - $X_1$ - $R_2$  together being  $C_1$ - $C_6$ alkyl,  $C_1$ - $C_6$ haloalkyl,  $C_2$ - $C_6$ alkenyl,  $C_2$ - $C_6$ haloalkenyl,  $C_2$ - $C_6$ alkynyl,  $C_2$ - $C_6$ haloalkynyl,  $C_3$ - $C_6$ cycloalkyl,  $C_1$ - $C_6$ alkoxy or  $C_1$ - $C_6$ alkylthio, e.g. methyl, ethyl, n-propyl, isopropyl, cyclopropyl, n-butyl, fluoromethyl, 2-fluoroethyl, difluoroethyl, trifluoroethyl, vinyl, 1-propenyl, methoxy, ethoxy, methylthio or ethylthio.

In the context of the present invention, preference is given to R being methyl, ethyl, n-propyl or isopropyl, especially ethyl.

$R_3$  is preferably methyl or ethyl, very especially ethyl.

$R_4$  is preferably trifluoromethyl, difluoromethyl, chlorodifluoromethyl, pentafluoroethyl, 2,2,2-trifluoroethyl, especially trifluoromethyl, chlorodifluoromethyl or difluoromethyl.

As inert solvents for the method according to the invention there are suitable, for example, aromatic solvents such as benzene, chlorobenzene, fluorobenzene, xylenes, toluene, or alcohols such as methanol or ethanol, and also ethyl acetate, acetonitrile, dimethyl sulfoxide, dimethylformamide, dimethylacetamide, N-methyl-2-pyrrolidone, acetone, butanone, halogenated solvents such as, for example, methylene chloride, trichloromethane, dichloroethylene or trichloroethane, ethers such as tetrahydrofuran, diethyl ether, 1,2-dimethoxyethane, dioxane or methyl tert-butyl ether. Ethanol and toluene are especially preferred.

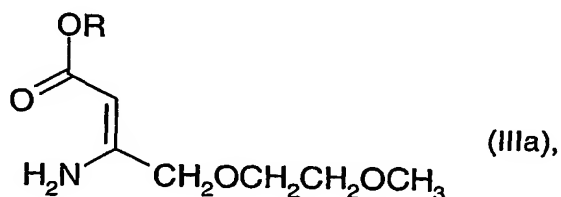
Organic or mineral acids are suitable as the proton source. Examples of suitable proton sources are HCl, HBr,  $H_2SO_4$ , carboxylic acids such as acetic acid and derivatives thereof such as trifluoroacetic acid and trichloroacetic acid, sulfonic acids such as methane-sulfonic acid or p-toluenesulfonic acid and also carbonic acid. As the proton source for the process according to the invention special preference is given to trifluoroacetic acid.

The reactions can be carried out at ambient temperature or at elevated temperature. In general, addition of the reactants is carried out at a temperature from ambient temperature to the boiling point of the solvent, especially from 20 to 140°C, preferably from 40 to 120°C, with subsequent heating of the reaction mixture, advantageously to the boiling point of the solvent.

The compounds of formula II are known or are accessible by known methods. Processes for the preparation of compounds of formula II are described, for example, in J. Org. Chem. (1995) vol 95, 3523, in H. Amil, T. Kobayashi, H. Terasawa, K. Uneyama, Org. Lett. 3(20), 3103-3105 (2001) and also A. Colla, G. Clar, S. Krimmer, P. Fischer, M.A.P. Martins, Synthesis-Stuttgart (6),483-486 (1991).

Some of the compounds of formula III are known. The preparation of such compounds is described in H. G. O. Becker, J. Prakt. Chem. (1961), Vol 12, 294., in WO 00/24714 and also in D.H. Wu, W. Wang, J. Labelled Compd. Rad 39(2),105-107(1997).

The compounds of formula III wherein  $-R_1-X_1-R_2$  is  $-CH_2-O-CH_2-CH_2-O-CH_3$ , that is to say compounds of formula IIIa



wherein R is as defined for formula III, are novel and were developed specifically for the preparation of compounds of formula I, and the present invention accordingly relates thereto. In a preferred compound of formula IIIa, R is methyl or ethyl.

Compounds of formula III can be prepared using processes known to the person skilled in the art, for example by reacting the unsaturated ketones on which they are based with ammonia gas as described in Preparation Example P1 hereinbelow.

In a preferred embodiment of the process according to the invention, the starting compounds of formula III are prepared from the 3-oxo-carboxylic acid esters on which they are based by introducing ammonia gas and then, without further isolation, reacting

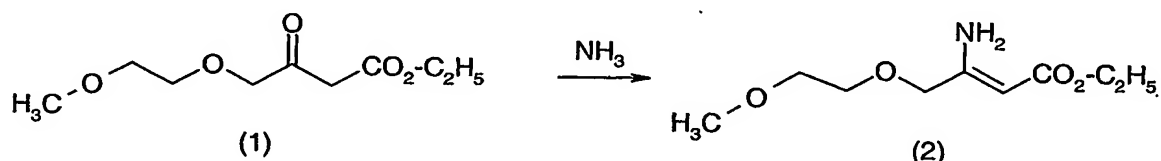


directly with the compounds of formula II. That process is especially advantageous for the large-scale preparation of compounds of formula I.

The compounds of formula I either may be used directly in the reaction mixture for further reactions or alternatively may be isolated. Isolation of the compounds of formula I can be carried out, for example, by extraction of the reaction mixture and subsequent removal of the solvent from the product-containing phase by customary methods.

The process according to the invention will be explained in greater detail in the following Preparation Examples:

Example P1: Preparation of 3-amino-4-methoxyethoxy-but-2-enoic acid ethyl ester:



A mixture of 1.37 g (6 mmol) of 3-oxo-4-methoxyethoxy-butanoic acid ethyl ester (1) in 13 ml of ethanol is introduced into a reaction vessel and cooled to a temperature of 0°C using an ice/water bath.

Ammonia gas is then introduced for a period of 30 minutes, with stirring, and the reaction mixture is stirred for a further 20 minutes at a temperature of 0°C. After removing the cooling bath, the reaction mixture is allowed to warm up to a temperature of 20°C and ammonia gas is then introduced for a further hour. The reaction mixture is then stirred for 20 hours.

After removal of the solvent *in vacuo*, there are obtained 1.3 g (95 % of theory) of 3-amino-4-methoxyethoxy-but-2-enoic acid ethyl ester (2) in the form of an orange-coloured oil.

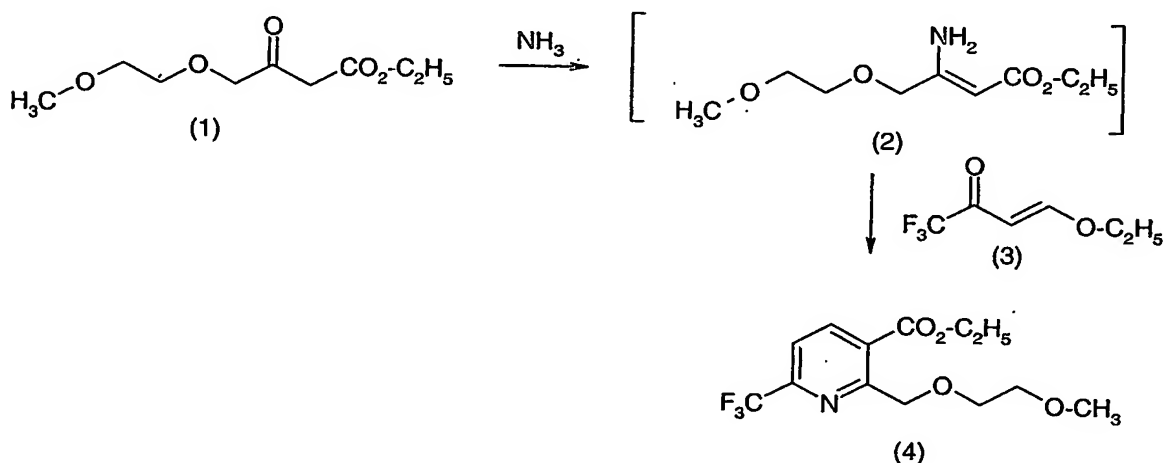
$^1\text{H}$  NMR ( $\text{CDCl}_3$ ): 1.30 (t, 3H,  $\text{CH}_3\text{CH}_2\text{O}-$ ), 3.40 (s, 3H,  $\text{CH}_3\text{O}-$ ), 3.55 (m, 2H,  $\text{OCH}_2\text{CH}_2\text{O}$ ), 3.60 (m, 2H,  $\text{OCH}_2\text{CH}_2\text{O}$ ), 4.10 (s, 2H,  $\text{C}=\text{CCH}_2\text{O}-$ ), 4.15 (q, 2H,  $\text{CH}_3\text{CH}_2\text{O}-$ ), 4.50 (s, 1H,  $\text{CH}=\text{CNH}_2$ ).

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$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ ): 14.7 ( $\text{CH}_3$ ), 58.9 ( $\text{CH}_2$ ), 59.2 ( $\text{CH}_3$ ), 70.0 ( $\text{CH}_2$ ), 71.0 ( $\text{CH}_2$ ), 71.8 ( $\text{CH}_2$ ), 81.9 ( $\text{CH}$ ), 159.7 (C), 170.3 (C).

MS: 203 ( $\text{M}^+$ ), 158, 157, 144, 129, 114, 100, 98, 83, 71, 59, 45.

Example P2: Preparation of 2-methoxyethoxymethyl-3-ethoxycarbonyl-6-trifluoromethyl-pyridine (4):



A mixture of 52.3 g (0.24 mol) of 3-oxo-4-methoxyethoxy-butanoic acid ethyl ester (1) in 150 ml of toluene is introduced into a reaction vessel equipped with a water separator.

Ammonia gas is then introduced into the reaction mixture for 2 hours, with stirring. Refluxing is then carried out for 30 minutes and the water is collected in the separator. After cooling the reaction mixture to a temperature of  $20^\circ\text{C}$ , the procedure is repeated. Ammonia gas is again introduced for 1.5 hours, with stirring, and the reaction mixture is then refluxed in order to separate off the water.

After cooling the reaction mixture, which contains 3-amino-4-methoxyethoxy-but-2-enoic acid ethyl ester (2), to a temperature of  $20^\circ\text{C}$ , 48 g (0.248 mol) of 1-ethoxy-3-oxo-4-trifluorobutene (3) are added and stirring is carried out at a temperature of  $20^\circ\text{C}$  for 18 hours. 1.5 ml of trifluoroacetic acid are then added, stirring is carried out at a temperature of  $20^\circ\text{C}$  for 2 hours and refluxing is carried out for a further 2 hours.

The reaction mixture is then allowed to cool down to a temperature of  $20^\circ\text{C}$  and is then washed with 100 ml of 1M  $\text{NaHCO}_3$ . The aqueous phase is separated off and is then

extracted with 150 ml of toluene and the combined organic phases are then dried over  $\text{MgSO}_4$ .

After removal of the solvent *in vacuo*, there are obtained 65.4 g (62 % of theory) of 2-methoxyethoxymethyl-3-ethoxycarbonyl-6-trifluoromethylpyridine in the form of a dark-brown oil.

$^1\text{H}$  NMR ( $\text{CDCl}_3$ ): 1.40 (t, 3H,  $\text{CH}_3\text{CH}_2\text{O}-$ ), 3.35 (s, 3H,  $\text{CH}_3\text{O}-$ ), 3.55 (m, 2H,  $\text{OCH}_2\text{CH}_2\text{O}$ ), 3.70 (m, 2H,  $\text{OCH}_2\text{CH}_2\text{O}$ ), 4.45 (q, 2H,  $\text{CH}_3\text{CH}_2\text{O}-$ ), 5.00 (s, 2H,  $\text{ArCH}_2\text{O}-$ ), 7.70 (s, 1H,  $\text{ArH}$ ), 8.30 (s, 1H,  $\text{ArH}$ ).

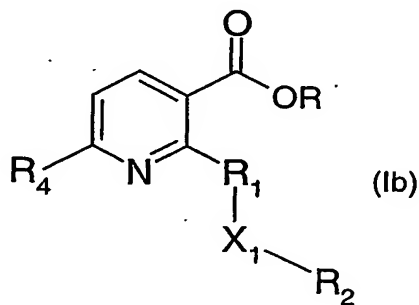
MS: 307 ( $\text{M}^+$ ), 262, 248, 233, 204, 202, 161, 128, 109, 59, 45

The other compounds listed in Table 1 can also be prepared in that manner.

In the following Table, the valency on the left of the radical  $\text{R}_1$  is attached to the pyridine ring. When no free valency is indicated in the case of the substituent  $\text{R}_2$ , as in the case of,







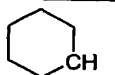
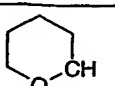
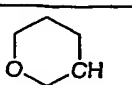
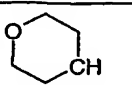
for example, , the attachment position is at the carbon atom marked "CH".



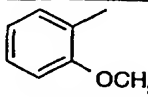
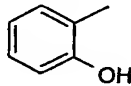
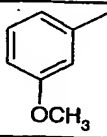
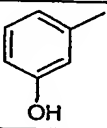

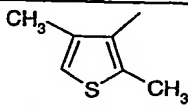
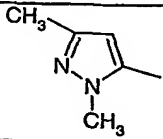
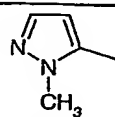
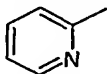
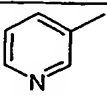
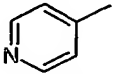
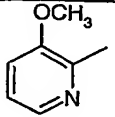
Table 1: Compounds of formula Ia

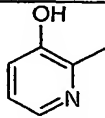
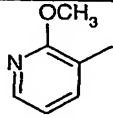
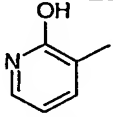
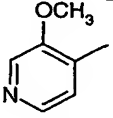
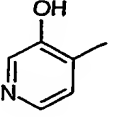


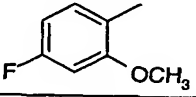
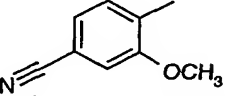
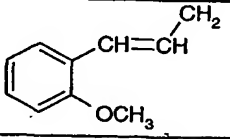
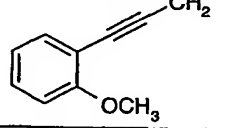
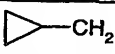
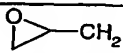
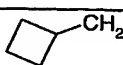
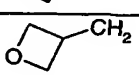


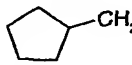
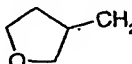



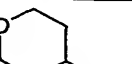

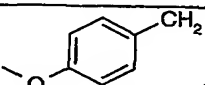
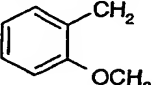
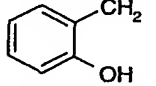
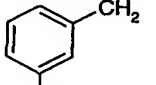
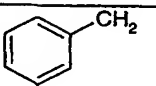
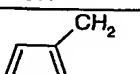
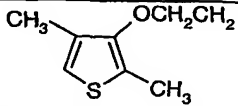
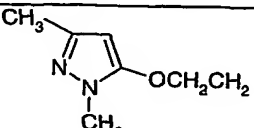
wherein R is methyl or ethyl:

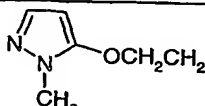
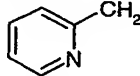
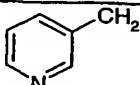
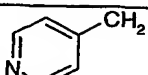
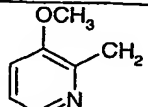
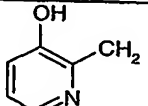
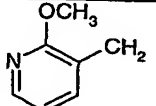
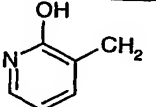
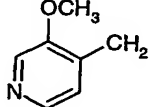
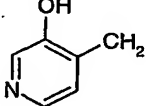
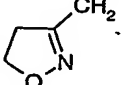
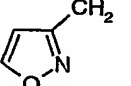
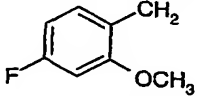
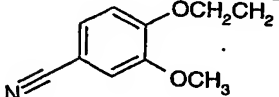
Comp. no.	$\text{R}_4$	$\text{R}_1$	$\text{R}_2$	$\text{X}_1$
A1	$\text{CF}_3$	$\text{CH}_2$	$\text{CH}_3$	O
A2	$\text{CF}_3$	$\text{CH}_2$	$\text{CH}_2\text{CH}_3$	O
A3	$\text{CF}_3$	$\text{CH}_2$	$(\text{CH}_3)_2\text{CH}$	O

Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
A4	CF <sub>3</sub>	CH <sub>2</sub>	PhCH <sub>2</sub>	O
A5	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub>	S
A6	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub>	SO
A7	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub>	SO <sub>2</sub>
A8	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub>	O
A9	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub>	O
A10	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A11	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A12	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OC(CH <sub>3</sub> ) <sub>2</sub> CH <sub>2</sub>	O
A13	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH(CH <sub>3</sub> )CH <sub>2</sub>	O
A14	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH(CH <sub>3</sub> )	O
A15	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> C(CH <sub>3</sub> ) <sub>2</sub>	O
A16	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH(CH <sub>3</sub> )	O
A17	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OC(CH <sub>3</sub> ) <sub>2</sub>	O
A18	CF <sub>3</sub>	CH <sub>2</sub>	HC≡CCH <sub>2</sub>	O
A19	CF <sub>3</sub>	CH <sub>2</sub>	H <sub>2</sub> C=CHCH <sub>2</sub>	O
A20	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> C≡CCH <sub>2</sub>	O
A21	CF <sub>3</sub>	CH <sub>2</sub>		O
A22	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>		O
A23	CF <sub>3</sub>	CH <sub>2</sub>		O
A24	CF <sub>3</sub>	CH <sub>2</sub>		O
A25	CF <sub>3</sub>	CH <sub>2</sub>		O
A26	CF <sub>3</sub>	CH <sub>2</sub>		O
A27	CF <sub>3</sub>	CH <sub>2</sub>		O
A28	CF <sub>3</sub>	CH <sub>2</sub>		O
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A30	CF <sub>3</sub>	CH <sub>2</sub>		O

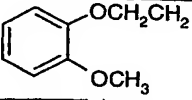
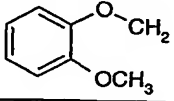



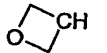
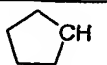
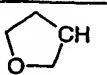
Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
A31	CF <sub>3</sub>	CH <sub>2</sub>		O
A32	CF <sub>3</sub>	CH <sub>2</sub>		O
A33	CF <sub>3</sub>	CH <sub>2</sub>		O
A34	CF <sub>3</sub>	CH <sub>2</sub>		O
A35	CF <sub>3</sub>	CH <sub>2</sub>		O
A36	CF <sub>3</sub>	CH <sub>2</sub>		O
A37	CF <sub>3</sub>	CH <sub>2</sub>		O
A38	CF <sub>3</sub>	CH <sub>2</sub>		O
A39	CF <sub>3</sub>	CH <sub>2</sub>		O
A40	CF <sub>3</sub>	CH <sub>2</sub>		O
A41	CF <sub>3</sub>	CH <sub>2</sub>		O
A42	CF <sub>3</sub>	CH <sub>2</sub>		O
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





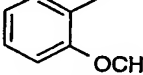
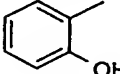
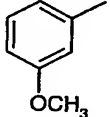
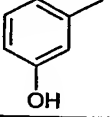

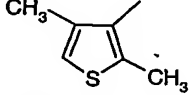
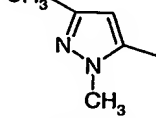
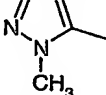
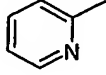
Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
A45	CF <sub>3</sub>	CH <sub>2</sub>		O
A46	CF <sub>3</sub>	CH <sub>2</sub>		O
A47	CF <sub>3</sub>	CH <sub>2</sub>		O
A48	CF <sub>3</sub>	CH <sub>2</sub>		O
A49	CF <sub>3</sub>	CH <sub>2</sub>		O
A50	CF <sub>3</sub>	CH <sub>2</sub>		O
A51	CF <sub>3</sub>	CH <sub>2</sub>		O
A52	CF <sub>3</sub>	CH <sub>2</sub>		O
A53	CF <sub>3</sub>	CH <sub>2</sub>		O
A54	CF <sub>3</sub>	CH <sub>2</sub>		O
A55	CF <sub>3</sub>	CH <sub>2</sub>		O
A56	CF <sub>3</sub>	CH <sub>2</sub>		O
A57	CF <sub>3</sub>	CH <sub>2</sub>		O
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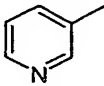
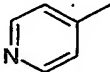
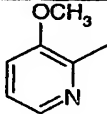
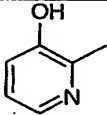
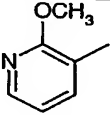
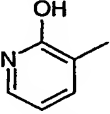
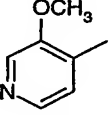
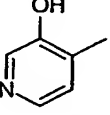


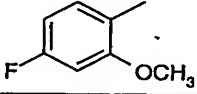
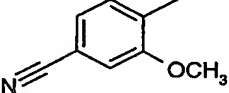
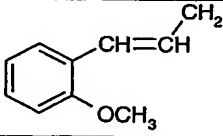
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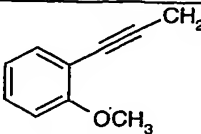
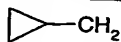
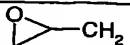
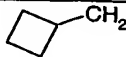

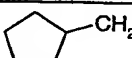

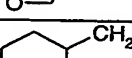

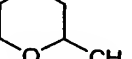
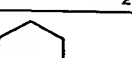
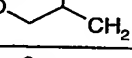
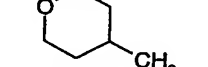
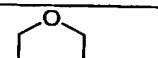
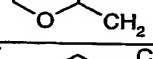
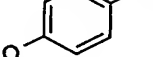
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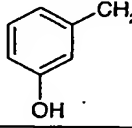
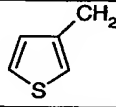
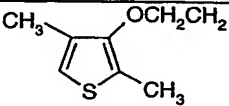
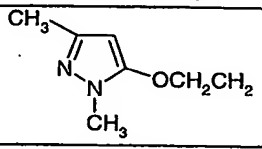
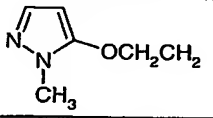
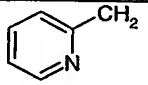
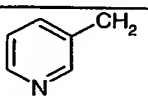
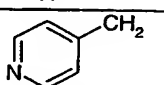
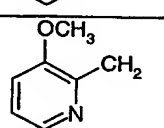
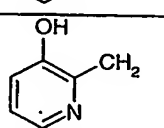
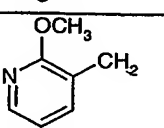
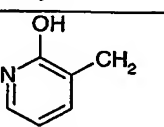
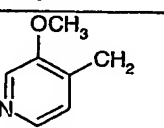


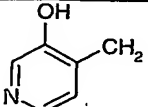
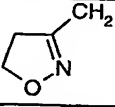
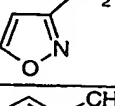
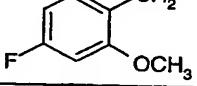
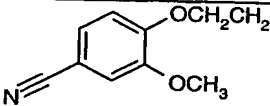
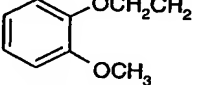
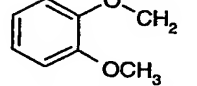
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





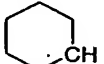
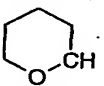
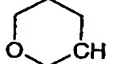
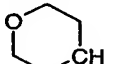
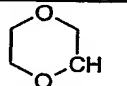
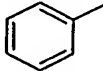
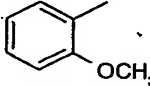
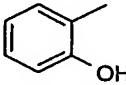
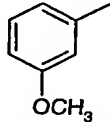
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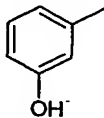

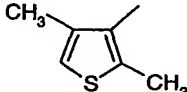
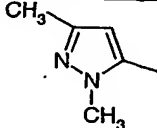
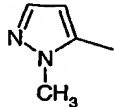
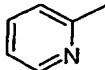
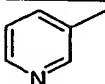
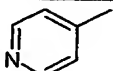
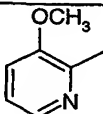
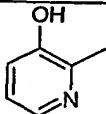
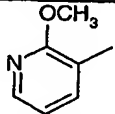
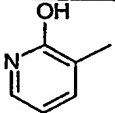
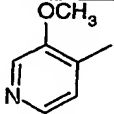
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A134	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A135	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A136	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A137	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A138	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A139	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
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A141	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A142	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A143	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A144	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A145	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O

Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
A146	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A147	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A148	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A149	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A150	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A151	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A152	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A153	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
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A160	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
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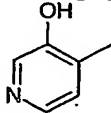


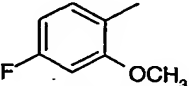
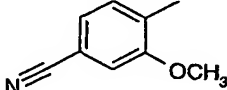
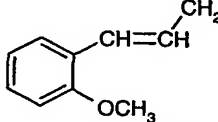
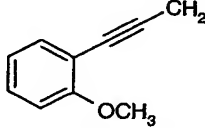
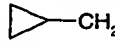
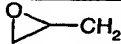
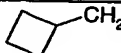
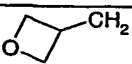
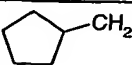
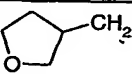
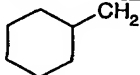
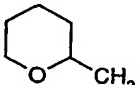
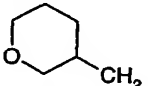
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A163	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
A164	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
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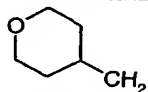
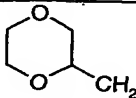
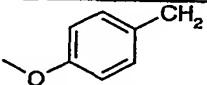
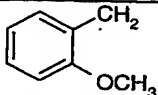
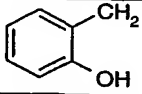
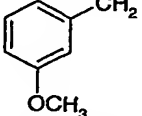
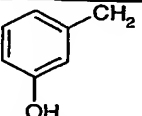
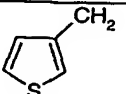
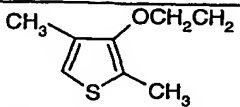
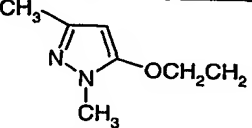
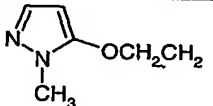
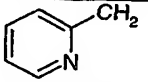
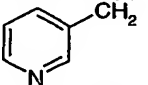
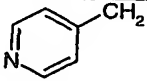
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A176	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub>		O
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A187	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub>	SO
A188	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub>	SO <sub>2</sub>
A189	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub>	O
A190	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub>	O
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A192	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A193	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A194	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> OC(CH <sub>3</sub> ) <sub>2</sub> CH <sub>2</sub>	O
A195	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> OCH(CH <sub>3</sub> )CH <sub>2</sub>	O
A196	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH(CH <sub>3</sub> )	O
A197	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> C(CH <sub>3</sub> ) <sub>2</sub>	O
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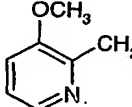
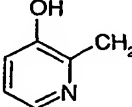
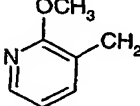
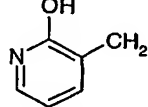
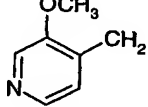
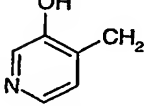
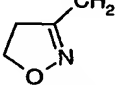
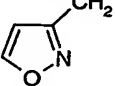
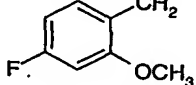
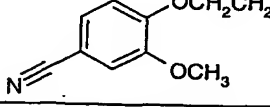
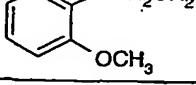
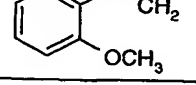
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A202	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> C≡CCH <sub>2</sub>	O
A203	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>	 CH	O
A204	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	 CH	O
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





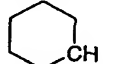
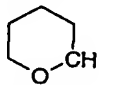
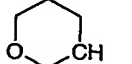
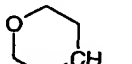
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A219	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A220	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A221	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A222	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A223	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A224	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A225	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A226	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
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A229	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
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
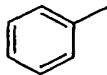
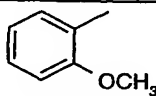
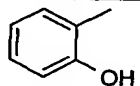
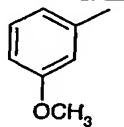
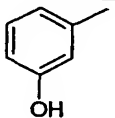

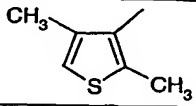
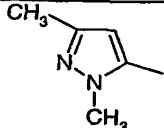
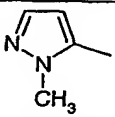
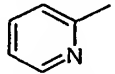
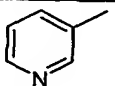
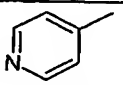
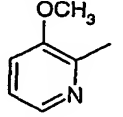


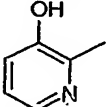
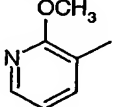
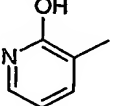
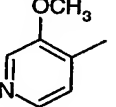
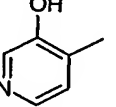


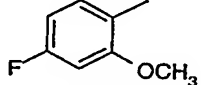
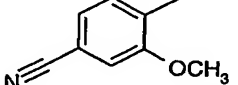
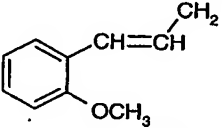
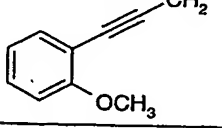
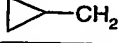
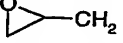
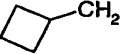
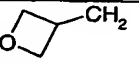
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A232	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
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A234	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A235	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A236	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A237	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A238	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A239	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
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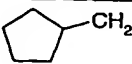
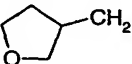
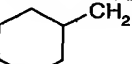
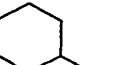
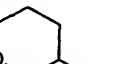



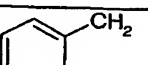
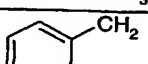
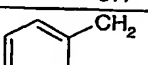
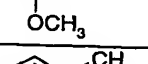
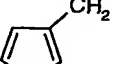
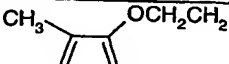
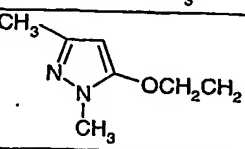
Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
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A248	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A249	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A250	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A251	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A252	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A253	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A254	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A255	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A256	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A257	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A258	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A259	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
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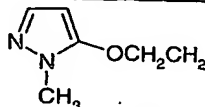
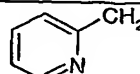
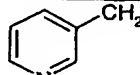
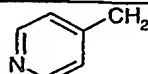
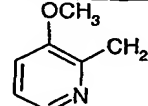
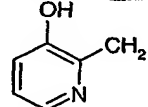
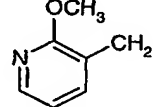
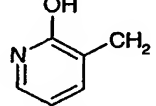
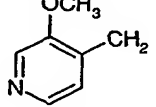
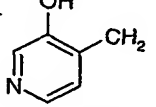
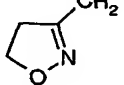
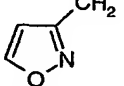
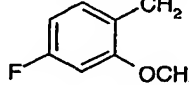
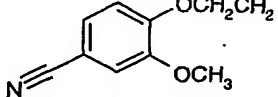
Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
A261	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A262	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A263	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A264	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A265	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A266	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A267	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A268	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
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A272	CF <sub>3</sub>	CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A273	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub>	O
A274	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub>	O
A275	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	(CH <sub>3</sub> ) <sub>2</sub> CH	O
A276	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	PhCH <sub>2</sub>	O

Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
A277	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub>	S
A278	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub>	SO
A279	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub>	SO <sub>2</sub>
A280	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub>	O
A281	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub>	O
A282	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub>	O
A283	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A284	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A285	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> OC(CH <sub>3</sub> ) <sub>2</sub> CH <sub>2</sub>	O
A286	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> OCH(CH <sub>3</sub> )CH <sub>2</sub>	O
A287	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH(CH <sub>3</sub> )	O
A288	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> C(CH <sub>3</sub> ) <sub>2</sub>	O
A289	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> OCH(CH <sub>3</sub> )	O
A290	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> OC(CH <sub>3</sub> ) <sub>2</sub>	O
A291	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	HC≡CCH <sub>2</sub>	O
A292	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	H <sub>2</sub> C=CHCH <sub>2</sub>	O
A293	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	CH <sub>3</sub> C≡CCH <sub>2</sub>	O
A294	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	 CH	O
A295	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	 CH	O
A296	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	 CH	O
A297	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	 CH	O
A298	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	 CH	O
A299	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	 CH	O
A300	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	 CH	O
A301	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	 CH	O
A302	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>	 CH	O
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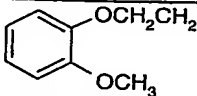
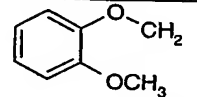

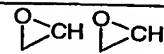

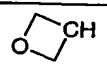
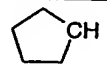

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A305	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A306	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A307	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A308	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A309	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A310	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A311	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A312	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
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





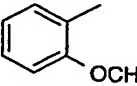
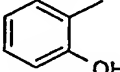
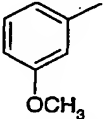
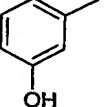

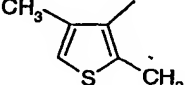
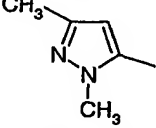
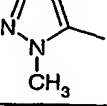
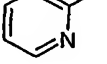
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A319	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A320	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A321	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A322	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A323	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A324	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
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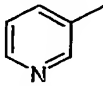
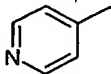
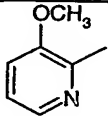
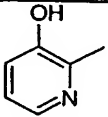
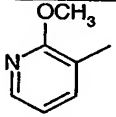
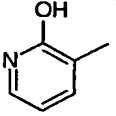
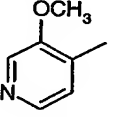
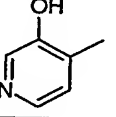
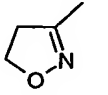
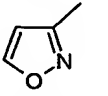
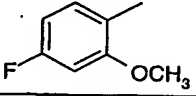
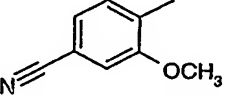
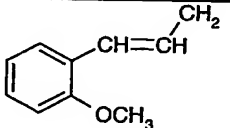
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A334	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
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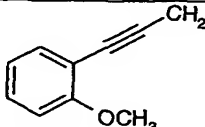
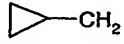
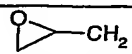
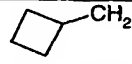

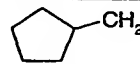
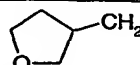
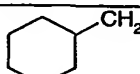
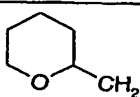
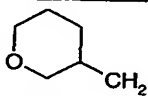
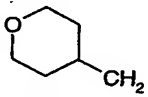
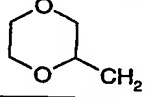
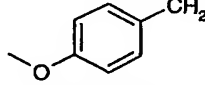
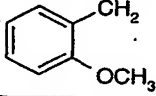
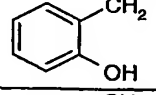
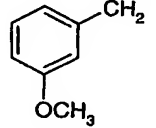
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A349	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A350	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A351	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A352	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A353	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A354	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A355	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A356	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A357	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A358	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A359	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A360	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
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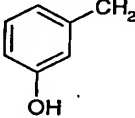
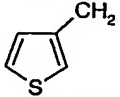
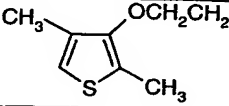
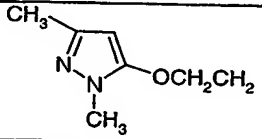
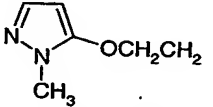
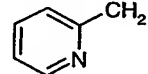
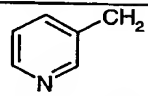
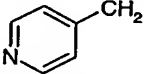
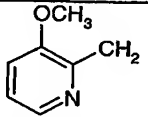
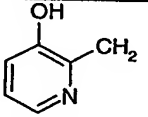
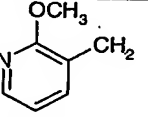
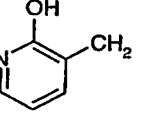
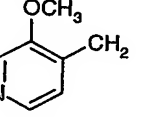


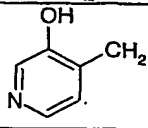
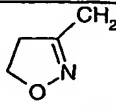
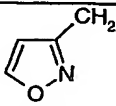
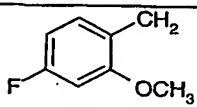
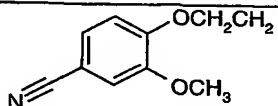
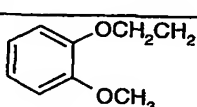
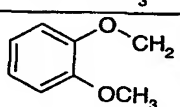
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A363	CF <sub>3</sub>	CH <sub>2</sub> CH(OCH <sub>3</sub> )CH <sub>2</sub>		O
A364	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub>	O
A365	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub>	O
A366	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	(CH <sub>3</sub> ) <sub>2</sub> CH	O
A367	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	PhCH <sub>2</sub>	O
A368	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub>	S
A369	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub>	SO
A370	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub>	SO <sub>2</sub>
A371	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub>	O
A372	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub>	O
A373	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub>	O
A374	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A375	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A376	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub> OC(CH <sub>3</sub> ) <sub>2</sub> CH <sub>2</sub>	O
A377	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub> OCH(CH <sub>3</sub> )CH <sub>2</sub>	O
A378	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH(CH <sub>3</sub> )	O
A379	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> C(CH <sub>3</sub> ) <sub>2</sub>	O
A380	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub> OCH(CH <sub>3</sub> )	O
A381	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub> OC(CH <sub>3</sub> ) <sub>2</sub>	O
A382	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	HC≡CCH <sub>2</sub>	O
A383	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	H <sub>2</sub> C=CHCH <sub>2</sub>	O
A384	CF <sub>3</sub>	CH=CHCH <sub>2</sub>	CH <sub>3</sub> C≡CCH <sub>2</sub>	O
A385	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A386	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
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A388	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
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
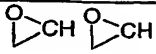




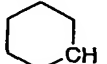
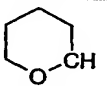
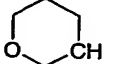
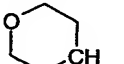
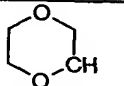
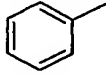
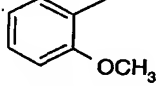
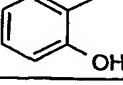
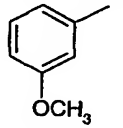
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A392	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A393	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A394	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A395	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A396	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A397	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A398	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A399	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A400	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A401	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A402	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A403	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
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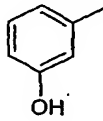

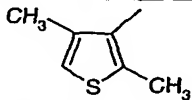
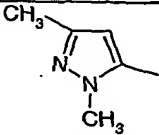
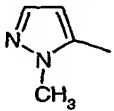
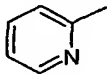
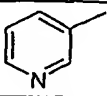
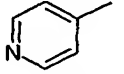
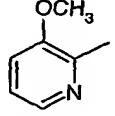
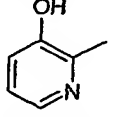
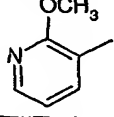
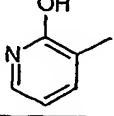
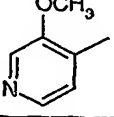
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A407	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A408	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A409	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A410	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A411	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A412	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A413	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A414	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A415	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A416	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A417	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A418	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O

Comp. no.	R <sub>4</sub>	-R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
A419	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A420	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A421	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A422	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A423	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A424	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A425	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A426	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A427	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A428	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A429	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A430	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A431	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A432	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
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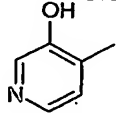


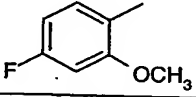
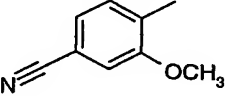
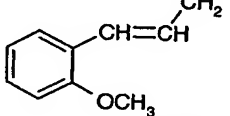
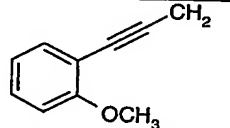
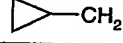
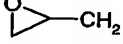
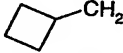
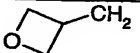
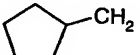
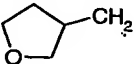
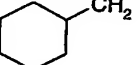
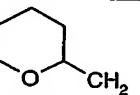
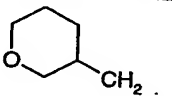
Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
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A444	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
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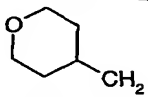
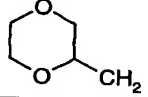
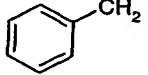
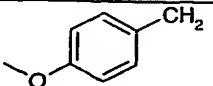
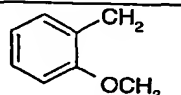
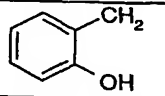
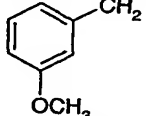
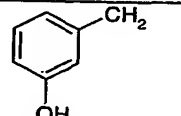
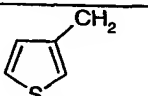
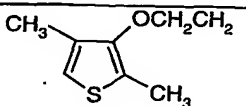
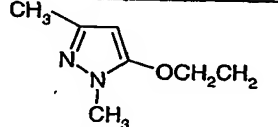
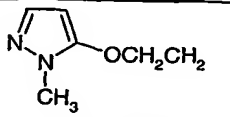
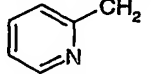
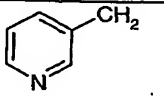
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A449	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A450	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A451	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A452	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
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A454	CF <sub>3</sub>	CH=CHCH <sub>2</sub>		O
A455	CF <sub>3</sub>	C≡CCH <sub>2</sub>	CH <sub>3</sub>	O
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A457	CF <sub>3</sub>	C≡CCH <sub>2</sub>	(CH <sub>3</sub> ) <sub>2</sub> CH	O
A458	CF <sub>3</sub>	C≡CCH <sub>2</sub>	PhCH <sub>2</sub>	O
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A460	CF <sub>3</sub>	C≡CCH <sub>2</sub>	CH <sub>3</sub>	SO
A461	CF <sub>3</sub>	C≡CCH <sub>2</sub>	CH <sub>3</sub>	SO <sub>2</sub>
A462	CF <sub>3</sub>	C≡CCH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub>	O
A463	CF <sub>3</sub>	C≡CCH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub>	O
A464	CF <sub>3</sub>	C≡CCH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub>	O
A465	CF <sub>3</sub>	C≡CCH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A466	CF <sub>3</sub>	C≡CCH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A467	CF <sub>3</sub>	C≡CCH <sub>2</sub>	CH <sub>3</sub> OC(CH <sub>3</sub> ) <sub>2</sub> CH <sub>2</sub>	O
A468	CF <sub>3</sub>	C≡CCH <sub>2</sub>	CH <sub>3</sub> OCH(CH <sub>3</sub> )CH <sub>2</sub>	O
A469	CF <sub>3</sub>	C≡CCH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH(CH <sub>3</sub> )	O
A470	CF <sub>3</sub>	C≡CCH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> C(CH <sub>3</sub> ) <sub>2</sub>	O
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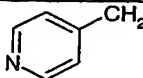
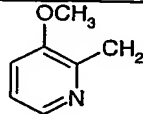
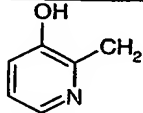
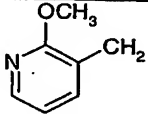
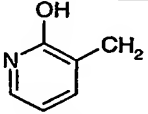
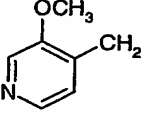
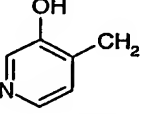
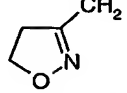
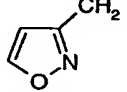
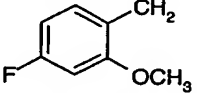
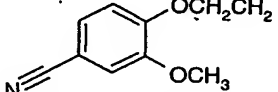
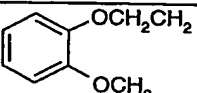
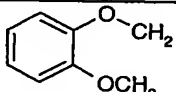
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A473	CF <sub>3</sub>	C≡CCH <sub>2</sub>	HC≡CCH <sub>2</sub>	O
A474	CF <sub>3</sub>	C≡CCH <sub>2</sub>	H <sub>2</sub> C=CHCH <sub>2</sub>	O
A475	CF <sub>3</sub>	C≡CCH <sub>2</sub>	CH <sub>3</sub> C≡CCH <sub>2</sub>	O
A476	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A477	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A478	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A479	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A480	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A481	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A482	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A483	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A484	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
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A487	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A488	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
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








Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
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A492	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
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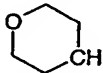
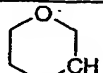
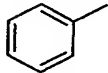
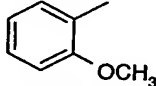
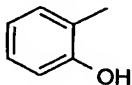
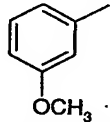
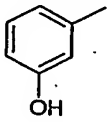

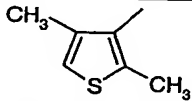
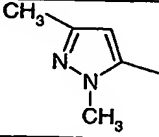
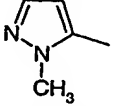
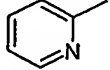
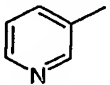
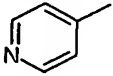


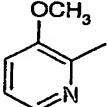
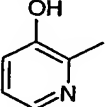
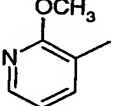
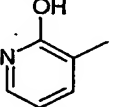
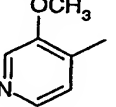
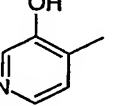


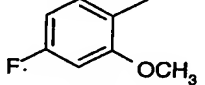
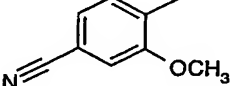
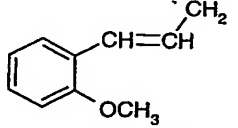
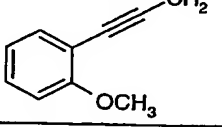
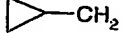
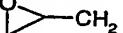
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A505	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A506	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A507	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A508	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
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A515	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A516	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A517	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
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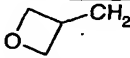
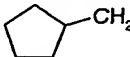
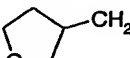

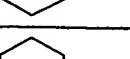
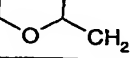
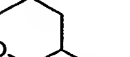
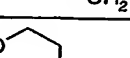
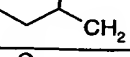
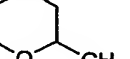
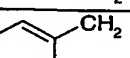
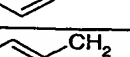
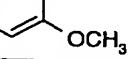
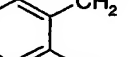
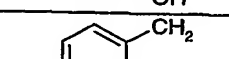
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A521	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A521a	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A522	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A523	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A524	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A525	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A526	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A527	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A528	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A529	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A530	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
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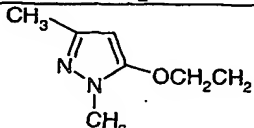
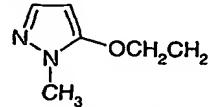
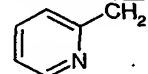
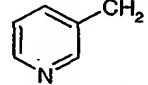
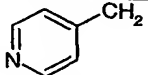
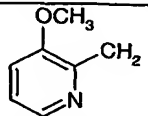
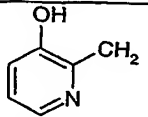
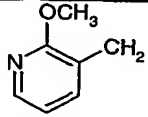
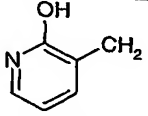
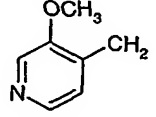
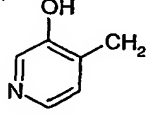
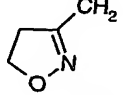
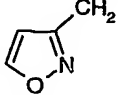
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A535	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A536	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
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A538	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
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A541	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A542	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A543	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
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A545	CF <sub>3</sub>	C≡CCH <sub>2</sub>		O
A546	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub>	O
A547	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub>	O

Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
A548	CF <sub>2</sub> Cl	CH <sub>2</sub>	(CH <sub>3</sub> ) <sub>2</sub> CH	O
A549	CF <sub>2</sub> Cl	CH <sub>2</sub>	PhCH <sub>2</sub>	O
A550	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub>	S
A551	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub>	SO
A552	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub>	SO <sub>2</sub>
A553	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub>	O
A554	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub>	O
A555	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub>	O
A556	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A557	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A558	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> OC(CH <sub>3</sub> ) <sub>2</sub> CH <sub>2</sub>	O
A559	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> OCH(CH <sub>3</sub> )CH <sub>2</sub>	O
A560	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH(CH <sub>3</sub> )	O
A561	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> C(CH <sub>3</sub> ) <sub>2</sub>	O
A562	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> OCH(CH <sub>3</sub> )	O
A563	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> OC(CH <sub>3</sub> ) <sub>2</sub>	O
A564	CF <sub>2</sub> Cl	CH <sub>2</sub>	HC≡CCH <sub>2</sub>	O
A565	CF <sub>2</sub> Cl	CH <sub>2</sub>	H <sub>2</sub> C=CHCH <sub>2</sub>	O
A566	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> C≡CCH <sub>2</sub>	O
A567	CF <sub>2</sub> Cl	CH <sub>2</sub>	 CH	O
A568	CF <sub>2</sub> Cl	CH <sub>2</sub>	 CH	O
A569	CF <sub>2</sub> Cl	CH <sub>2</sub>	 CH	O
A570	CF <sub>2</sub> Cl	CH <sub>2</sub>	 CH	O
A571	CF <sub>2</sub> Cl	CH <sub>2</sub>	 CH	O
A572	CF <sub>2</sub> Cl	CH <sub>2</sub>	 CH	O
A573	CF <sub>2</sub> Cl	CH <sub>2</sub>	 CH	O
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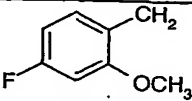
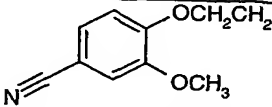
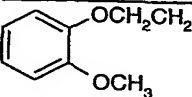
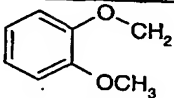



Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
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A577	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A578	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A579	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A580	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A581	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A582	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A583	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
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A585	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
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






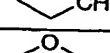
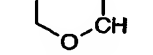
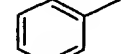

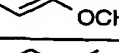
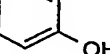
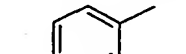
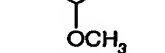
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A591	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
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A594	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
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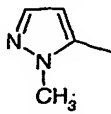
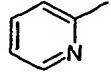
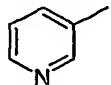
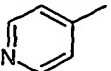
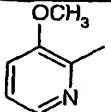
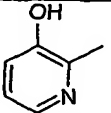
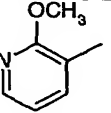
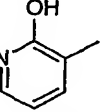
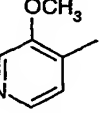
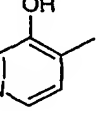
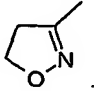
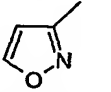
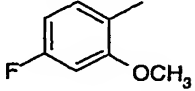
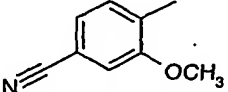
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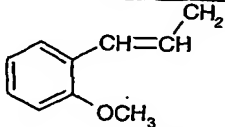
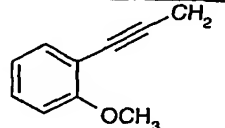
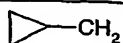
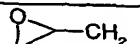


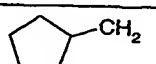
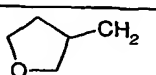
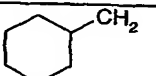
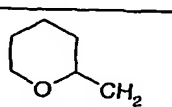
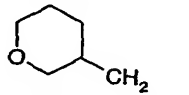
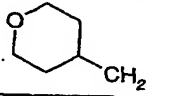
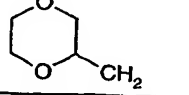
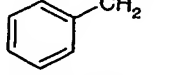
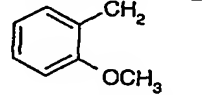
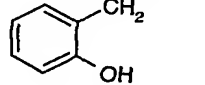
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A621	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A622	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A623	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A624	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A625	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A626	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A627	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A628	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
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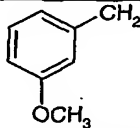
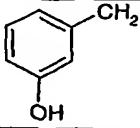
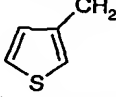
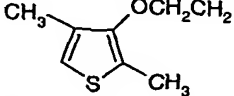
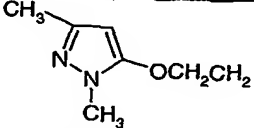
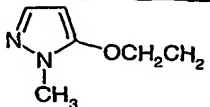
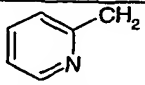
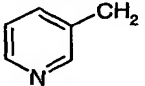
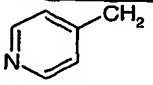
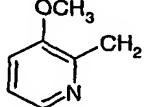
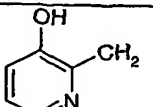
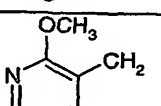
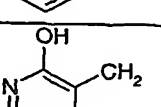


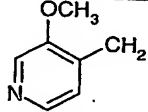
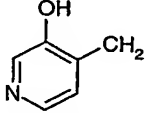
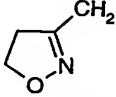
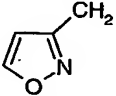
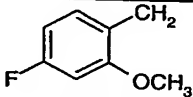
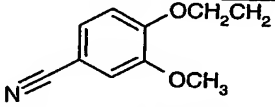
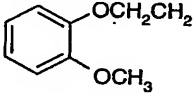
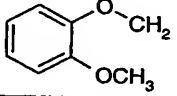
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A637	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub>	O
A638	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>2</sub> CH <sub>3</sub>	O
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A641	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub>	S
A642	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub>	O
A643	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub>	O
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A657	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
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





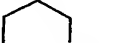

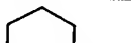


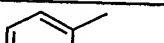
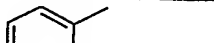
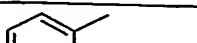

Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
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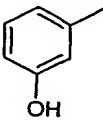

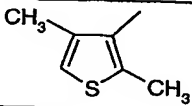
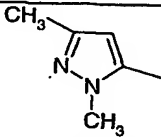
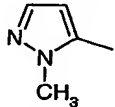
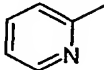
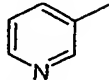
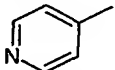
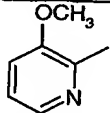
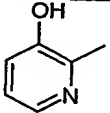
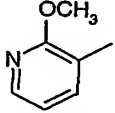
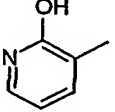
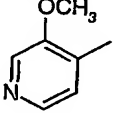
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A683	CF <sub>2</sub> Cl	CH <sub>2</sub>		SO
A684	CF <sub>2</sub> Cl	CH <sub>2</sub>		SO <sub>2</sub>
A685	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
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A688	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A689	CF <sub>2</sub> Cl	CH <sub>2</sub>		O

Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
A690	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A691	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A692	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A693	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A694	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
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A696	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A697	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
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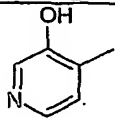


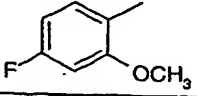
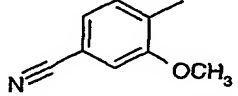
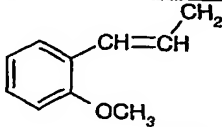
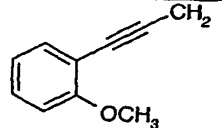
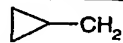
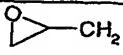
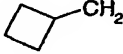

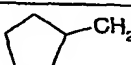
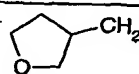
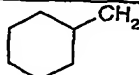
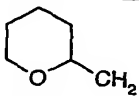
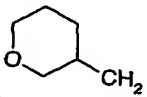
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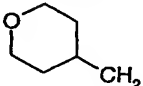
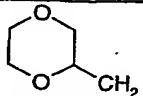
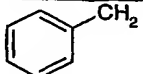
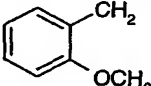
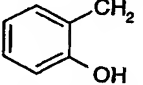
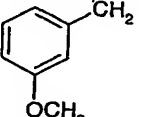
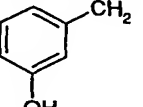
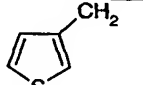
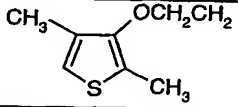
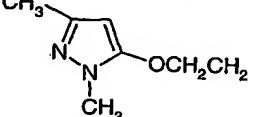
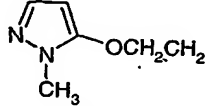
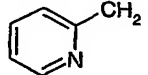
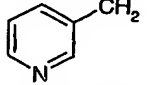
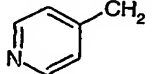
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A722	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
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A727	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub>	O
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A729	CF <sub>2</sub> Cl	CH <sub>2</sub>	(CH <sub>3</sub> ) <sub>2</sub> CH	O
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A731	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub>	S
A732	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub>	SO
A733	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub>	SO <sub>2</sub>
A734	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub>	O
A735	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub>	O
A736	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A737	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A738	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> OC(CH <sub>3</sub> ) <sub>2</sub> CH <sub>2</sub>	O
A739	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> OCH(CH <sub>3</sub> )CH <sub>2</sub>	O
A740	CF <sub>2</sub> Cl	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH(CH <sub>3</sub> )	O
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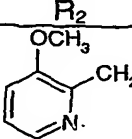
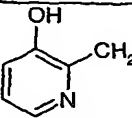
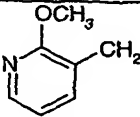
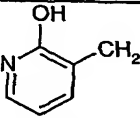
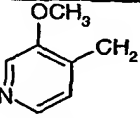
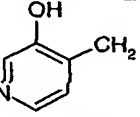
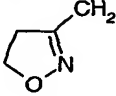
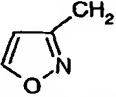
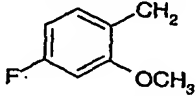
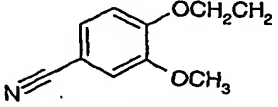
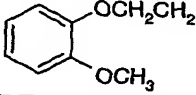
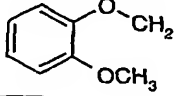
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A744	CF <sub>2</sub> Cl	CH <sub>2</sub>	HC≡CCH <sub>2</sub>	O
A745	CF <sub>2</sub> Cl	CH <sub>2</sub>	H <sub>2</sub> C=CHCH <sub>2</sub>	O
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A750	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
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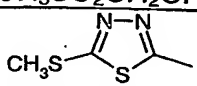
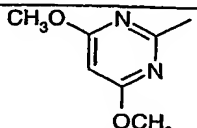
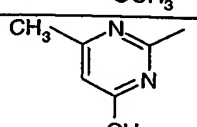
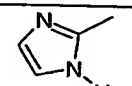
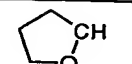
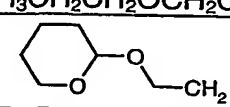
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A762	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A763	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A764	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A765	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A766	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A767	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A768	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A769	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A770	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A771	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A772	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A773	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A774	CF <sub>2</sub> Cl	CH <sub>2</sub>		O

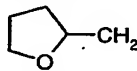
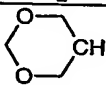
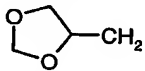
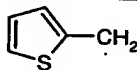
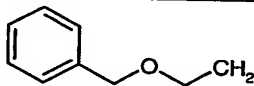
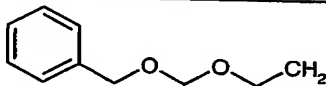
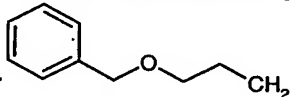


Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
A775	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A776	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A777	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A778	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A779	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A780	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A781	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A782	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A783	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A784	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A785	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A786	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A787	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A788	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A789	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A790	CF <sub>2</sub> Cl	CH <sub>2</sub>		O

Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
A791	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A792	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A793	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A794	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A795	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A796	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A797	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A798	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A799	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A800	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A801	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A802	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A803	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A804	CF <sub>2</sub> Cl	CH <sub>2</sub>		O

Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
A805	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A806	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A807	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A808	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A809	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A810	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A811	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A812	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A813	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A814	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A815	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A816	CF <sub>2</sub> Cl	CH <sub>2</sub>		O
A817	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> SCH <sub>2</sub> CH <sub>2</sub>	O
A818	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> SOCH <sub>2</sub> CH <sub>2</sub>	O
A819	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> SO <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	O
A820	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub>	O

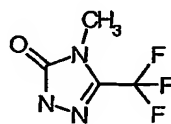
Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
A821	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A822	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A823	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A824	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A825	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub>	S
A826	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub>	SO
A827	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub>	SO <sub>2</sub>
A828	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> SO <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	O
A829	CF <sub>3</sub>	CH <sub>2</sub>		S
A830	CF <sub>3</sub>	CH <sub>2</sub>		S
A831	CF <sub>3</sub>	CH <sub>2</sub>		S
A832	CF <sub>3</sub>	CH <sub>2</sub>		S
A833	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> C(O)	O
A834	CF <sub>3</sub>	CH <sub>2</sub>	CF <sub>3</sub> CH <sub>2</sub>	O
A835	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A836	CF <sub>3</sub>	CH <sub>2</sub>	HC≡CCH <sub>2</sub> CH <sub>2</sub>	O
A837	CF <sub>3</sub>	CH <sub>2</sub>		O
A838	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> C(OCH <sub>3</sub> )HOCH <sub>2</sub> CH <sub>2</sub>	O
A839	CF <sub>3</sub>	CH <sub>2</sub>	(CH <sub>3</sub> ) <sub>3</sub> CC(O)	O
A840	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>2</sub> =CHCH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A841	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A842	CF <sub>3</sub>	CH <sub>2</sub>		O
A843	CF <sub>3</sub>	CH <sub>2</sub>	n-heptyl-C(O)	O
A844	CF <sub>3</sub>	CH <sub>2</sub>	phenyl-C(O)	O
A845	CF <sub>3</sub>	CH <sub>2</sub>	CF <sub>3</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A846	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	O

Comp. no.	R <sub>4</sub>	R <sub>1</sub>	R <sub>2</sub>	X <sub>1</sub>
A847	CF <sub>3</sub>	CH <sub>2</sub>	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	O
A848	CF <sub>3</sub>	CH <sub>2</sub>		O
A849	CF <sub>3</sub>	CH <sub>2</sub>	N≡CCH <sub>2</sub> CH <sub>2</sub>	O
A850	CF <sub>3</sub>	CH <sub>2</sub>	ClCH <sub>2</sub> CH <sub>2</sub>	O
A851	CF <sub>3</sub>	CH <sub>2</sub>		O
A852	CF <sub>3</sub>	CH <sub>2</sub>		O
A853	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OCH <sub>2</sub> C(Br)HCH <sub>2</sub>	O
A854	CF <sub>3</sub>	CH <sub>2</sub>		O
A855	CF <sub>3</sub>	CH <sub>2</sub>		O
A856	CF <sub>3</sub>	CH <sub>2</sub>	HOCH <sub>2</sub> CH <sub>2</sub>	O
A857	CF <sub>3</sub>	CH <sub>2</sub>		O
A858	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> (OCH <sub>2</sub> CH <sub>2</sub> ) <sub>3</sub>	O
A859	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> CH <sub>2</sub> OC(CH <sub>3</sub> )HOCH <sub>2</sub> CH <sub>2</sub>	O
A860	CF <sub>3</sub>	CH <sub>2</sub>	n-heptyl-C(O)OCH <sub>2</sub> CH <sub>2</sub>	O
A861	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> C(O)OCH <sub>2</sub> CH <sub>2</sub>	O
A862	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> SO <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	O
A863	CF <sub>3</sub>	CH <sub>2</sub>		O
A864	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub>	-N(CH <sub>3</sub> )SO <sub>2</sub> -
A865	CF <sub>3</sub>	CH <sub>2</sub>	HOCH <sub>2</sub> C(OH)HCH <sub>2</sub>	O
A866	CF <sub>3</sub>	CH <sub>2</sub>	phenyl-C(O)OCH <sub>2</sub> CH <sub>2</sub>	O
A867	CF <sub>3</sub>	CH <sub>2</sub>	tert-butyl-C(O)OCH <sub>2</sub> CH <sub>2</sub>	O
A868	CF <sub>3</sub>	CH <sub>2</sub>	CH <sub>3</sub> OC(O)CH <sub>2</sub>	O
A869	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	CH <sub>3</sub>	O
A870	CF <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	CH <sub>2</sub> CH <sub>3</sub>	O
A871	CF <sub>2</sub> Cl	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	CH <sub>3</sub>	O
A872	CF <sub>2</sub> Cl	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>	CH <sub>2</sub> CH <sub>3</sub>	O

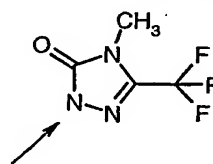
The process according to the invention can be used especially advantageously for the preparation of the following compounds of Table 2:

In Table 2 which follows, the attachment position of the individual structures of the heterocycles of the group  $R_2$  to the substituent  $R_1-X_1$ -, or to the  $C_1$ - $C_4$ alkylene,  $C_2$ - $C_4$ alkenyl- $C_1$ - $C_4$ alkylene,  $C_2$ - $C_4$ alkynyl- $C_1$ - $C_4$ alkylene,  $-N(R_{12})$ - $C_1$ - $C_4$ alkylene,  $-SO$ - $C_1$ - $C_4$ alkylene or  $-SO_2$ - $C_1$ - $C_4$ alkylene groups which connect the heterocycle of  $R_2$  to the basic structure of formula I, is that nitrogen atom which is located at the same geometric position as is indicated in the Example below.

For example, the attachment position of the group

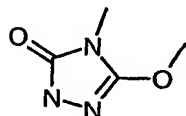


in the case of

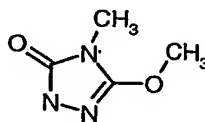


compound A 1.001 is the position indicated by an arrow:

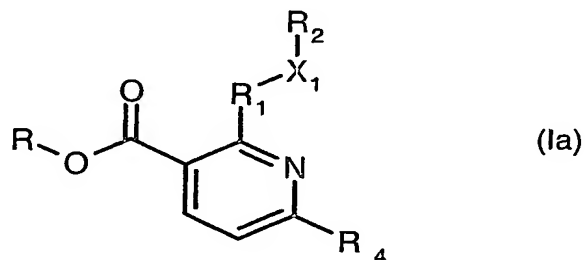
The free valencies in those structures represent terminal  $CH_3$  groups, as in the case of,



for example, the structure

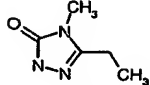
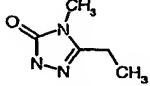
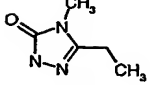
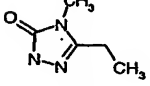
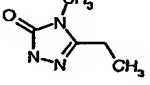
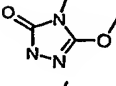
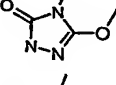
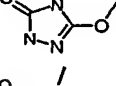
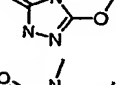
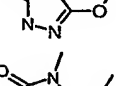
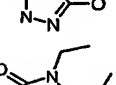
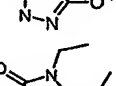
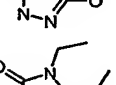
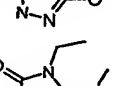
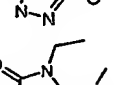
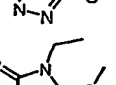
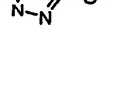


which may also be depicted as follows:

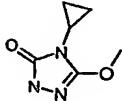
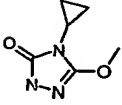
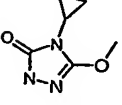
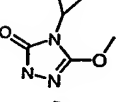
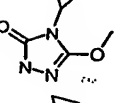
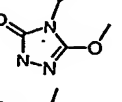
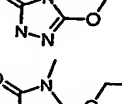
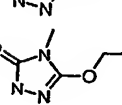
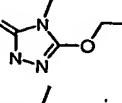
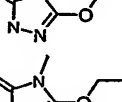
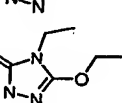
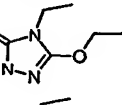
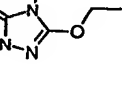
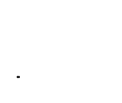

Table 2: Compounds of formula Ia wherein R is either methyl or ethyl:

Comp. no.	R <sub>4</sub>	-R <sub>1</sub> -	-X <sub>1</sub> -R <sub>2</sub>
A1.001	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.002	CF <sub>2</sub> H	CH <sub>2</sub>	
A1.003	CF <sub>3</sub>	CH <sub>2</sub>	
A1.004	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.005	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.006	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.007	CF <sub>3</sub>	CH <sub>2</sub>	
A1.008	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.009	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.010	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.011	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.012	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.013	CF <sub>3</sub>	CH <sub>2</sub>	

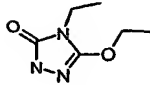
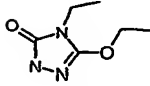
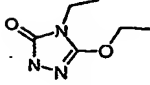
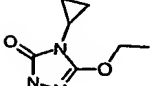
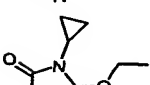
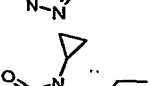
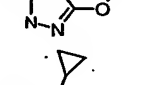
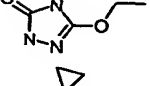
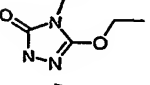
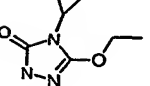
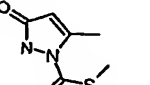
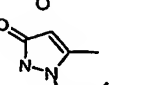
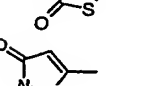
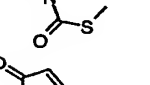
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Comp. no.	R <sub>4</sub>	-R <sub>1</sub> -	-X <sub>1</sub> -R <sub>2</sub>
A1.014	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.015	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.016	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.017	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.018	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.019	CF <sub>3</sub>	CH <sub>2</sub>	
A1.020	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.021	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.022	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.023	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.024	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.025	CF <sub>3</sub>	CH <sub>2</sub>	
A1.026	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.027	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.028	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.029	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.030	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	



Comp. no.	R <sub>4</sub>	-R <sub>1</sub> -	-X <sub>1</sub> -R <sub>2</sub>
A1.031	CF <sub>3</sub>	CH <sub>2</sub>	
A1.032	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.033	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.034	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.035	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.036	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.037	CF <sub>3</sub>	CH <sub>2</sub>	
A1.038	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.039	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.040	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.041	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.042	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.043	CF <sub>3</sub>	CH <sub>2</sub>	
A1.044	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.045	CHF <sub>2</sub>	CH <sub>2</sub>	





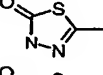
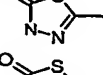
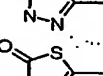
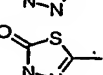
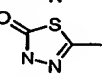
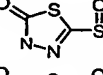
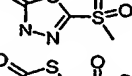
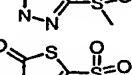
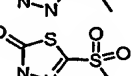
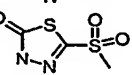
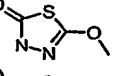
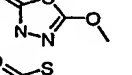
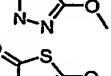
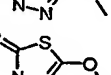
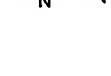


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Comp. no.	R <sub>4</sub>	-R <sub>1</sub> -	-X <sub>1</sub> -R <sub>2</sub>
A1.046	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.047	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.048	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.049	CF <sub>3</sub>	CH <sub>2</sub>	
A1.050	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.051	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.052	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.053	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.054	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.055	CF <sub>3</sub>	CH <sub>2</sub>	
A1.056	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.057	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.058	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.059	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	

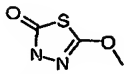
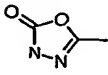
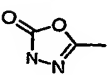
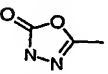
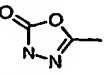
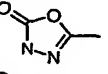
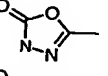
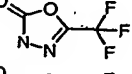
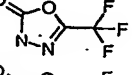
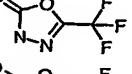
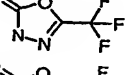
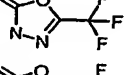
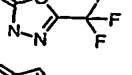






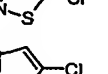
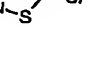
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Comp. no.	R <sub>4</sub>	-R <sub>1</sub> -	-X <sub>1</sub> -R <sub>2</sub>
A1.060	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.061	CF <sub>3</sub>	CH <sub>2</sub>	
A1.062	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.063	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.064	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.065	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.066	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.067	CF <sub>3</sub>	CH <sub>2</sub>	
A1.068	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.069	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.070	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.071	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.072	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.073	CF <sub>3</sub>	CH <sub>2</sub>	
A1.074	CF <sub>2</sub> Cl	CH <sub>2</sub>	

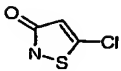
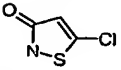
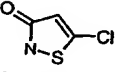
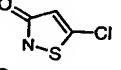
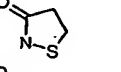
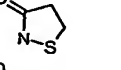
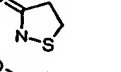
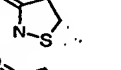
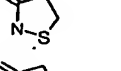
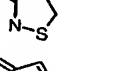
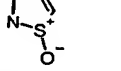
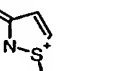
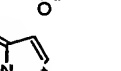
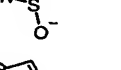
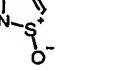
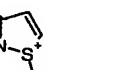
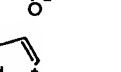
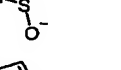
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Comp. no.	R <sub>4</sub>	-R <sub>1</sub> -	-X <sub>1</sub> -R <sub>2</sub>
A1.075	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.076	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.077	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.078	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.079	CF <sub>3</sub>	CH <sub>2</sub>	
A1.080	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.081	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.082	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.083	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.084	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.085	CF <sub>3</sub>	CH <sub>2</sub>	
A1.086	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.087	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.088	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.089	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.090	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.091	CF <sub>3</sub>	CH <sub>2</sub>	
A1.092	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.093	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.094	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.095	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	



















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Comp. no.	R <sub>4</sub>	-R <sub>1</sub> -	-X <sub>1</sub> -R <sub>2</sub>
A1.096	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.097	CF <sub>3</sub>	CH <sub>2</sub>	
A1.098	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.099	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.100	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.101	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.102	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.103	CF <sub>3</sub>	CH <sub>2</sub>	
A1.104	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.105	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.106	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.107	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.108	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.109	CF <sub>3</sub>	CH <sub>2</sub>	
A1.110	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.111	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.112	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.113	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.114	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.115	CF <sub>3</sub>	CH <sub>2</sub>	
A1.116	CF <sub>2</sub> Cl	CH <sub>2</sub>	

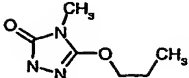
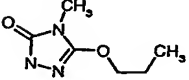
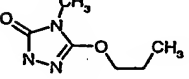
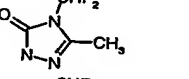
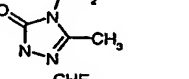
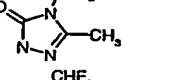
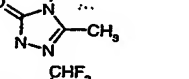
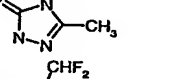
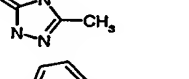

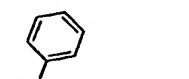
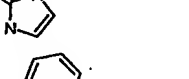

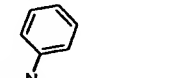
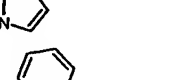

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Comp. no.	R <sub>4</sub>	-R <sub>1</sub> -	-X <sub>1</sub> -R <sub>2</sub>
A1.117	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.118	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.119	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.120	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.121	CF <sub>3</sub>	CH <sub>2</sub>	
A1.122	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.123	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.124	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.125	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.126	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.127	CF <sub>3</sub>	CH <sub>2</sub>	
A1.128	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.129	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.130	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.131	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.132	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.133	CF <sub>3</sub>	CH <sub>2</sub>	
A1.134	CF <sub>2</sub> Cl	CH <sub>2</sub>	

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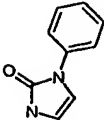
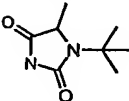
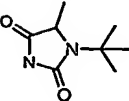
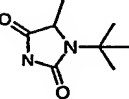
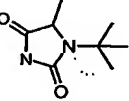
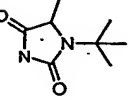
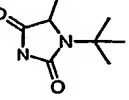
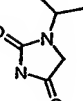
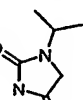
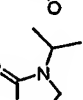
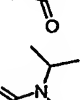
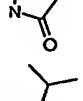
Comp. no.	R <sub>4</sub>	-R <sub>1</sub> -	-X <sub>1</sub> -R <sub>2</sub>
A1.135	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.136	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.137	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.138	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.139	CF <sub>3</sub>	CH <sub>2</sub>	
A1.140	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.141	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.142	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.143	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.144	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.145	CF <sub>3</sub>	CH <sub>2</sub>	
A1.146	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.147	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.148	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.149	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.150	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.151	CF <sub>3</sub>	CH <sub>2</sub>	
A1.152	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.153	CHF <sub>2</sub>	CH <sub>2</sub>	

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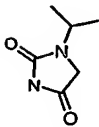
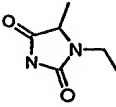
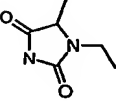
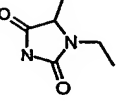
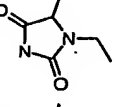
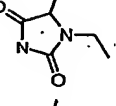
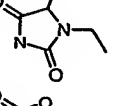
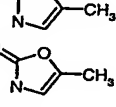
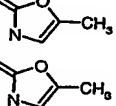
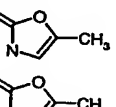
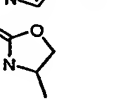
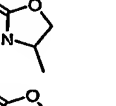
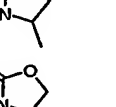


Comp. no.	R <sub>4</sub>	-R <sub>1</sub> -	-X <sub>1</sub> -R <sub>2</sub>
A1.154	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.155	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.156	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.157	CF <sub>3</sub>	CH <sub>2</sub>	
A1.158	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.159	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.160	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.161	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.162	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.163	CF <sub>3</sub>	CH <sub>2</sub>	
A1.164	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.165	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.166	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.167	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
			
			





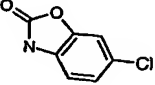
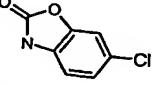
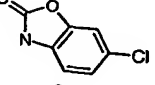










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Comp. no.	R <sub>4</sub>	-R <sub>1</sub> -	-X <sub>1</sub> -R <sub>2</sub>
A1.168	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.169	CF <sub>3</sub>	CH <sub>2</sub>	
A1.170	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.171	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.172	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.173	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.174	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.175	CF <sub>3</sub>	CH <sub>2</sub>	
A1.176	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.177	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.178	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.179	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	

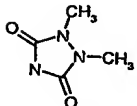

















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Comp. no.	R <sub>4</sub>	-R <sub>1</sub> -	-X <sub>1</sub> -R <sub>2</sub>
A1.180	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.181	CF <sub>3</sub>	CH <sub>2</sub>	
A1.182	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.183	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.184	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.185	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.186	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.187	CF <sub>3</sub>	CH <sub>2</sub>	
A1.188	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.189	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.190	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.191	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.192	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.193	CF <sub>3</sub>	CH <sub>2</sub>	
A1.194	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.195	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.196	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	






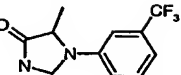
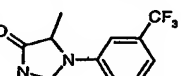
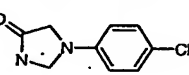
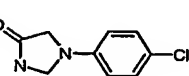
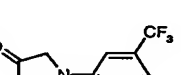
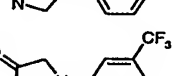
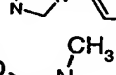
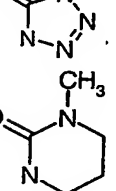

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Comp. no.	R <sub>4</sub>	-R <sub>1</sub> -	-X <sub>1</sub> -R <sub>2</sub>
A1.197	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.198	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.199	CF <sub>3</sub>	CH <sub>2</sub>	
A1.200	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.201	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.202	CF <sub>3</sub>	CH <sub>2</sub>	
A1.203	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.204	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.205	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.206	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.207	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.208	CF <sub>3</sub>	CH <sub>2</sub>	
A1.209	CF <sub>3</sub>	CH <sub>2</sub>	
A1.210	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.211	CF <sub>3</sub>	CH <sub>2</sub>	

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Comp. no.	R <sub>4</sub>	-R <sub>1</sub> -	-X <sub>1</sub> -R <sub>2</sub>
A1.212	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.213	CF <sub>3</sub>	CH <sub>2</sub>	
A1.214	CF <sub>2</sub> Cl	CH <sub>2</sub>	
A1.215	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.216	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.217	CF <sub>2</sub> Cl	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.218	CHF <sub>2</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.219	CF <sub>3</sub>	CH <sub>2</sub>	
A1.220	CF <sub>3</sub>	CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>	
A1.221	CF <sub>3</sub>	CH <sub>2</sub>	
A1.222	CF <sub>3</sub>	CH <sub>2</sub>	
A1.223	CF <sub>3</sub>	CH <sub>2</sub>	
A1.224	CF <sub>3</sub>	CH <sub>2</sub>	
A1.225	CClF <sub>2</sub>	CH <sub>2</sub>	
A1.226	CClF <sub>2</sub>	CH <sub>2</sub>	
A1.227	CClF <sub>2</sub>	CH <sub>2</sub>	
A1.228	CClF <sub>2</sub>	CH <sub>2</sub>	
A1.229	CClF <sub>2</sub>	CH <sub>2</sub>	

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Comp. no.	R <sub>4</sub>	-R <sub>1</sub> -	-X <sub>1</sub> -R <sub>2</sub>
A1.230	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.231	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.232	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.233	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.234	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.235	CF <sub>3</sub>	CH <sub>2</sub>	
A1.236	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.237	CF <sub>3</sub>	CH <sub>2</sub>	
A1.238	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.240	CF <sub>3</sub>	CH <sub>2</sub>	
A1.241	CHF <sub>2</sub>	CH <sub>2</sub>	
A1.242	CF <sub>3</sub>	CH <sub>2</sub>	
A1.243	CF <sub>3</sub>	CH <sub>2</sub>	
A1.244	CF <sub>3</sub>	CH <sub>2</sub>	
A1.245	CF <sub>3</sub>	CH <sub>2</sub>	